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> Crime, Law and Social Science



Crime, Law and Social Science

BY

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INCLUSION OF TWA DIE COCCURRING COLUMNISTICAL

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LONDON

KEGAN PAUL, TRENCH TRUBNER & CO LTD. NEW YORK, HARCOURT, BEACE AND COMPANY

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PRRFACE

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This book was originally written us the report W a survey which was made under the ampices of the School of Law of Columbia University for the Bureau of Secial Rygians for the purpose of determining whether or not if is destrable at this lims to establish au institute of echnicalogy and of criminal justice in the United States and of planulars such as institute W as the result of the survey it should prove to be desirable to establish that. The Bureau has graciously given the authors permission to much a review of their report in this form, but the Bureau wishes it understood that this permission does not in any way imply approval of the sunclustens and recommendations of the authors.

In order to sawwer the questions which the Burean formitated as the problems of the survey, it was necessary to undertake an examination and an evaluation of the state of knowledge and of the methods of research in the fields of criminal justice. This is turn involved an analysis of the unture of empirical edience and its differentiation from other kinds of knowledge; a consideration of the value of different kinds of knowledge in the solution of the value of different kinds of knowledge in the solution af crime; the exparation of the field of criminology from that of criminal justice in terms of the kinds of knowledge needed to solve their respective problems, and, finally, a definition of the three-tied problems of the riminal law, in the light of which the different bodies of knowledge which are useful to the legislator and the judge could be properly related and subordinated.

It is this last point which the authors wish to make the pivotal theme of this hook. It can be formulated must generally in the question what is the relation of law to the accal sciences. III so far as this book numbers the question it does so, of course. in terms of the crimbal law, on the one hand, and of criminology, on the other. But the specificity of the terms in which the enswer is given does not render the answer familicient to the general question. The eximinal law can be taken as representative of any body of substantive law; as a hody of substantive law it differs in no emential respects from the law of torts, of contracts, or of property, for example. Mimilarly, eriminology can be taken as representative of the nocial adences in the sense that its problems and methods as an empirical science are in cosence the same as those of such social sciences as seconder and socialury. Mersever, it will be seen that criminology is peculiarly dependent upon psychology and sociology and therefore represents them in subject matter as well as in problems and methods. The relation of criminology to the criminal law can thus be taken as typical of the relation, for instance, of economics and paychology to the law of contracts, and, generally, of the relation of sprint science to law.

The phenomena of esime and of business are clearly among the loct of the intersection of science and law. With respect to origin the investigator asks what are its causes and what are Its affects; the legislator asks what behavior shall be proscribed and how shall transgressors he treated by the state. The transoctions of commerce and the andertakings of industry present similar acts of questions to the investigator and to the legislator respectively. The end of the investigator in either case is a theoretical one; it is knowledge which he neeks, whether or not that knowledge he ultimately unclud in practical affairs. The end of the legislator in either case is a practical one; he seeks to control and regulate the conduct of men III anciety. The question of the relation of social science to law in therefore the quantities of the extent to which and of the way in which such knowledge is useful in the solution of legal problems, either by the legislator, the judge or the jurist,

Current controversy about the relation of social science to law is unfortunately confund by the introduction of other and extremeous immes, such as whether or not law is itself one of the social sciences, whether or not the problems and methods of legal research are the same in kind as those of research in the social sciences. That the propositions of law do not constitute an empirical science, that is, a body of knowledge somehow derived by inference from observation, need not be argued here. That a body of law, such as the criminal law, can scientifically expounded in the sense in which a retional science is a certain kind of analytical exposition, does not mean that law is a species of science but rather that the principles and rules of law constitute a subject matter of which there can be a science, as wall as a history and a philosophy. Similarly, sociology, sconomics, psychology, criminology are the names of subject matters of which there can be sciences. The question therefore is whether law as the subject matter of a science is like sociology or seanomics as the subject matter of a science. The question cannot I answared except in the light of the distinction between empirical and rational science. But it can be said here that the word 'law' is sufficiently ambiguous to make both answers possible. Law in the sense of a body of propositions beving distinctive form can be expounded in the manner of a rational acleace; law in the sense of existing legal institutions, processes and events can be studied in the manner of an empirical science. But the propositions which will result from the investigation of legal institutions, processes and events in the manner of an empirical science will not be propositions of law; they will be empirical scientific propositions And the propositions which result from the enect-Ments of legislators and the decisions of judges are not scientific propositions; they are propositions of law, which are capable being studied in the manner of a rational science,

Our major problem must be stated in terest of tew in this last seen. When we sak what is the relation of social science to law we are not saking what is the relation of one social science, let us say economics, to smother, namely, law in the sense of an empirical study of legal funditations, processes and events; we are saking rather what is the relation of any empirical knowledge, PREFACE

including that derived from an empirical study of Ingal institutions, processes and events, to law in the sense of the propositions which result from legislative concinents and judicial decidors.

However, we have not ignored the preblem whether or not legal institutions, processes and events can be studied in the manner of an empirical science. On the contrary, we have examined the knowledge which research has yielded shout the administration of the criminal law, that is, the institutions, processes and events of criminal justice. While this knowledge is empirical in the sense that it is based upon observation, it is marely descriptive it lacks both the generality and the analytical form of ampirical scientific knowledge. Purthermore, if the empirical invertigation of legal data ever becomes ecientific in form, the results will necessarily be part of an established science, called either sociology or political ariance or by some such name. Legal institutions and processes are not see generie; they are like other social or political institutions and processes. If there is ever a science of social or political institutions and processes, it will or can be made to include scientific knowledge about the law as one sat of social factivations and precesses. In other words, empirical knowledge about the law will retain its separate antity only so long at such knowledge in merely descriptive, marely a fund of information. Our discussion of knowledge of the administration of the criminal law #8 generally applicable to knowledge If the administration of any beanch of substantive law.

We have chosen to exististe this book around the thome of the relation of law and social science because of its contemporary importance. The rive of what has been called exchological juriaprudence followed the development of the social sciences in the latter half of the sineteenth century. More recently American aniversity law schools laws undertaken and projected reforms in legal education is the belief that the study of the whould be more closely affiliated with the simily of the social sciences. Associated with this movement in legal admention, if not responsible for it, have been attempts to make jurispressions 'realistic' or 'actentife', to formulate the problems of legal research as if they were problems in emphrical social science. In short, the effort hus been to introduce both the content and the methods of the social sciences into the study and practice of the law. Current controversy of the issues thus raised has been prefoundly unclear, largely because empirical ackance has not been defined and distinguished from other kinds of knowledge, and because of the ambiguity of the word "law" as denoting both the body of propositions created by legislators and judges and the institutions and processes by which law II this first sense is useds and administered. When such definitions and distinctions are useds, it is readily seen that none of the ac-called social sciences are yet established as empirical solvenes; that the study of law III the first of the shore senses II uttarly independent of them; and that empirical knowledge of social pleasurem, whether descriptive or scientific, is related to the practice, not the study of law.

We feel therefore that this book performs the negative task of clarifying many of the fewner in contemporary jurisprudence, as wall as the constructive task of formulating the relation which will obtain between the empirical social ecisacos, if and when they exist, and the practice of law. The practice of law, whether by legislator, judge or lawyer, is dependent both upon knowledge of the law and upon knowledge of society, its members, its institutions, its processes. The former knowledge is rational in character; the latter may be either empirical or rational. We have so far amitted reference to the retional sciences of othics and politics although in the follor analysis which this book presents it will be seen that the caspirical social sciences are strictly subordinate in whility to these rational sciences. Emplyleal knowledge cannot be used intelligently in the practice of law until the ends of practice are determined. This determinetion can be made only rationally by means of the principles of ethics and politics; these two sciences furnish the bases for the rational experition of any body of substantive law. We have exhibited this dependence, of course, in terms of the substantive criminal law, but the case is truital.

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Our analysis of criminology and criminal justice and of the way in which they are related less a general significance in so for as it is applicable to social science and lew and to their relationship. We hope that this generalised significance gives this book some importance on a contribution to contemporary jurisprudence. But it has, of course, a much more restricted significance in relation to the problems of crime. In this restricted significance, its importance must be estimated by referexce to current shibboleths and punctoes. The problems of crime are socially so urgent and pressing that it is natural for remedien and reforms to be proposed and widely propagandised. These ramedies and reforms fall into three groups: first, those which propose changes in the content and administration of the criminal law in the name of science, such, for instance, as the attachment of navehintrints to criminal courte; second, those which advance schemes for the prevention of crime both by moune of the administration of the criminal haw and by other means, also in the name of science; and, third, those which advocate changes in the institutions and processes of crimical justice in the light of our knowledge of its ineffector; and the conditions thereof.

Whenever a solution of any of the problems of crime is advanced in the name of science, whether the ociution take the form of a change in the erinainal law or its educationation, or the form of a change in the erinainal law or its educationarction, or the form of some non-legal device, it is arternally important to ask whether the knowledge appealed to it or is not extendite and, if not, whether its validity and significance are such as to render it capable of being used powerfically. Our critique of social adeases in general and ill the resturbes of ctiminallogists and of students of the administrations of the criminal law in particular, enables in to answer these questions. We find that so scheme of prevention, no alteration of criminal justice with a view to prevention, yet proposed is based either upon scientific knowledge or upon descriptive knowledge which passesses a sulfility and a significance which give it practical stiffty. All attempts to solve the problem of controlling crime are therefore no better than hap-neared trial and error effects. We find that the recognition of

this state of efficies is of great practical importance, since the obsticate maintenance of shillsoleths and doctrinates optimize in the name of actence presents as houses acknowledgment of our profound and extensive ignorance. Until our ignorance is acknowledged, until our lack of science and of any other kind of valid and algorithmat knowledge in admitted, we will not stop this trial and arror familiag. We will not begin to solve the problem of controlling criminal behavior in the only practicable way, namely, by attempting to solvenge our incovalence.

We find, on the other hand, that while we have no scientific knowledge of the institutions and processes of criminal justice. knowledge of that character to not indispensable in attempts to increase the afficiency with which the criminal law | administered. We do passess descriptive knowledge of those institutions and processes. While knowledge of that sort does not enable us to prevent crime, it does make it possible for us to bring about substantial improvements in crimical faction. The point is that whereas we cannot significantly lateracet knowledge which is morely descriptive of crimicals and their environments in terms of our common knowledge of human pature, we que significantly interpret knowledge which is energy descriptive of the institutions and processes of criminal faction in terms of our common knowledge of the conditions of the efficient conduct of practical affairs. To recognise that here we have enough knowledge to procood to benedicant results in to elentify the source III our fullure to reform the administration of the criminal law. It is either our lack of interest in good government or our unwillingness to sucrifice other values for this value.

In the light of the foregoing discussion, the organisation of this book takes on significance. It is divided into four parts. In the first, crime is defined; theoretical und practical problems are both distinguished and related; and the various problems of crime are formulated. In the second, the nature of ampirical science and scientific method is analyzed in scales to state the conditions of an empirical actmon of criminalogy; the entire field of criminological resourch is surveyed and criticined; and the various proposals for the control of exime are summarised and midbled as having no seleguate foundation in knowledge and, hence, as trial and error. In the third, one descriptive knowledge of the administration of the criminal law is surveyed and evaluated; its usefulness is efforts to increase the efficiency of ordininal law are analyzed and shown to be dependent for their solution, first, upon the principles of the rational actences of thise and politics, and, exceed, upon empirical social sciences of thise and politics, and, exceed, upon empirical social sciences of they engravist. In the fourth, we summarise our canciusions and state our recommendations. The nummery of our conclusions serves to synthesize the analysis upon which they are based. Our recommendations present our own approach to the solution of the problems of crime in the form of a plan for an institute of eriminalogy and of the grained and states of eriminalogy and of the grained and states of eriminalogy and of the grained and states of eriminalogy and of eriminalogy are as of eriminalogy and of eriminalogy are as of eriminalogy and eriminalogy are as of eriminalogy are as of eriminalogy and eriminalogy are as of eriminalogy are as of eriminalogy and eriminalogy are as of eriminalogy and eriminalogy are eriminalogy and eriminalogy are eriminalogy and eriminalogy are eriminalogy and eriminalogy are eriminalogy are eriminalogy are eriminalogy are eriminalogy are eriminalogy are eriminalog

We think that it will be clear that whereas the and nitimately served by the creation of such an inetitute is a practical one, its character has been dictated primarily by theoretical interests which are zeconstrily prior. Furthermore, the plan of the criminological division of the proposed institute indicates in part the way in which we would proceed to remedy the deplorable conditions which new prevail II the escial actances. The plan of the criminal justice division of the proposed institute indicates a program of legal education and legal research which would reastablish both as rational nadorinkings, in contravention of present tendencies to make them subservient to the derrated empiricism of research in sacial science. In short, the critical burden of this book is bulanced by what we believe to be comatractive steps proposed in the form of an institute of criminolary and of criminal justice; each of these constructive measures is in turn based upon our or more of the conclusions of the critical analysis developed throughout this book.

п

Since our report was submitted to the Bureau of Social Hygiene, it has been read by a number of readons who have been good enough to comment upon it to us. From their comments we have learned what are likely to be the principal sources ill minunderstanding of our position. In sums cases the criticiams of the readers of the report have led us to make destrinal corrections which are incurporated in the present tant.

While we fear that we cannot eliminate the combility that our arguments will be minunderstood, our discovery of the chief sources of misunderstanding does enable us to point out to the reader of this book errors of misinterpretation or misreading which he can avoid if he is inclined to do so. A few of the commants which we have received ladicate a failure to read the text. a fallure at the level of redimentary understanding of the annivals. The reader who will be guilty of such perlicence cannot be forewarned against it. But the reader who is willing to discover what the text really contains may be aided by angestions based upon the experience of other readers. We offer these anggestions in the form of a general discussion of the terminology of the book to which we edd a brief analysis of the major points difficulty in the dectrine. Since we cannot anticipate the detailed discussion of these points in the text, the reader may later no more here than what its look for in the text; he may not know why he is to look for it.

The problem of terminology is the most unpleasant and harmsing problem which the nucleor of a work of this sort faces. Any solution of it is unsaftly massinguage and an inadequate one. If, on the other band, he invents a new language and an inadequate one. If, on the other band, he invents a new language for expressing his analysis, as Whitehead has done in Process and Rockly, he will find that few readows will ambe the effort to understand him, if they read him at all. If he compromises by using the works of ordinary speech but restricting each of these words to an unambiguous significance by defining remarks and qualifying phranes, he will find that he suffers from both of the extreme positions which he has tried to compromise: readers will persist in using the familiar words in their loose and ambiguous popular councies. zvii PREFACE

tions regardless of the author's explicit directions to the emirary, and ill the same time they will complete that the author is difficult to understand because he uses ordinary words in an unfamiliar way.

The problem of terminology is difficult not only because of the recalcitrance of the reader, but also because of an inescapable aphitrapiness and ambiguity in the use of words. It is axiomatic that if two things are alike, they are also different; if they are different, they are also able; and the respects in which they are alike must be different from the respects in which they are different. The same word can be used either to name a similarity between two things or to indicate a difference between them. Thus, for instance, empirical and rational sciences are alike in that they are both inadequate as knowledge. They differ in the nature and source of their inadequacy. The word 'probable' can be used to mean the inndequary of knowledge; thus used, both empirical and rational sciences can be said to be probable. The word is thus used to indicate a similarity. But 'probable' can also be used to mean the kind of multiquery which characterism empirical science and which is different from the tind present in rational science. Thus used, only empirical science can be said to be probable; the same word which before indicated a similarity between the two things, now indicates a difference between them. Controversy us to whether both empirical and rational science are probable must be examined first on the verbal level in order to determine whether probable is being good in its less postricted meaning of 'inadequate' or in its more restricted mountur of 'inadequate in a certain way'; if the former is the case, they are both probable; If the latter is the case, they are not. I either case, the controversy which arose because of revial ambiguity is resolved.

Two things are similar generically and different specifically; here it the sume word in much in a home and in a more restricted meaning, the less restricted meaning will indicate a similarily and the more restricted meaning, a difference. If any author uses the same word in both ways without explicit indication that he is using the word now generically and now specifically, ill is guilty

of equivocation. It is entirely arbitrary whether a given word shall be used to indicate a similarity or a difference. Thus, we employ the phrase 'empirical acience' in a restricted meaning which differentiates physics from criminology; we might have used it in a less restricted meaning in order to Indicate the similarity of physics and criminology as hodies of knowledge somehow based upon experience. The analysis would not be changed by this aphitrary change in usage, because physics and criminology are clearly differentiable as bottles of knowledge, and hence some other word could be used arbitrarily to express this differentiation. Verbal trace may be arbitrary, but analysis is not. The importtion of a word upon a thing as its name to erbitrary; the assignment of a meaning to a word as its significance I arbitrary; but the similarities and differences emong things are not arbitrary, nor are differences of meanings which words must be made to carry if they are to serve the intellectual purposes of definition and analysis.

A question of etiquette remains. Who has the right to determine how words shall be used? The right belongs in me one, at course, but hy common courtes the reade should connede this right to the author. In this respect, if in no other, an author must have undisposed authority, regardless of how much violence ha does to ordinary neages. The author in turn is bound by decency not to be unnecessarily obscore; he should depart us little as possible from the conventions of usage; but with thur ultimately must rest the decision as to the need for such departures. The reader is under no obligation to read what the author has written, but if he does so, he is obligated to follow the nuthor in the latter's arbitrary usages no long as the entitor ts condition

The use of words in an alaborate and tockwical disconnice of the arbitrary in the sease that the author imposes a restricted and definite meaning upon a word which ill ordinary mage has multiple and ambiguous significance. But sawtywa itself is nover arbitrary, so that although the imposition of restricted meanings upon words ill arbitrary, the meanings themselves express dis-

tinctions assertial to the analysis. Thus, if we needed different meanings to 'retisual arismer', 'empirical acteuer', 'descriptive knowledge", 'common sense generalizations' and 'opinious', we do to in order to make distinctions in kinds of knowledge which are emential to our analysis. We might have used dve other obrates to convey the distinctions, but the distinctions would nevertheless have remained the same if the same meanings had been arbitrarily imposed upon these other phrases. If the reader has objections of any sort to the language we use, he may use his own upon one condition, namely, that he have so many verbal units in his own youabulary as we have, so that he can express the name number of distinctions in his own language by arbitestily imposing the same mornings upon other verbal maits. What readers often do is to try to translate the author's language into their own without satisfying this condition, largely for the reason that they are not aware that the author has developed a more elaborate vocabulary than they possess, because his analysis has required him to do so. One language can be translated into enother only to the extent that they have the same range of meanings; in the absence of such equivalence, things can be said III one language which cannot III translated into the other without corious distortion. This is the major source of missuaderstanding by readers which authors cannot avoid.

We can have enumerate for the reader the batic terms to the vocabulary of our analysis. They are science, common sense, ampirical, rational, opinion, theoretical, proposition, raintly, significance, observation, inference, probability, compendency, systems, present proposition, descriptive knowledge, simplier proposition, general proposition, law, proposition of singular proposition, descriptive knowledge, justice, subject metter, dependent, independent, determination. Rach of these words is ment unforcedly throughout with a definition, and the sense of the

One further point about the etiquatic of terrafactory. Words powers powers of sulogy and derogation in addition to their meanings. 'Science' and 'selectifie' are now generally eulogistic; 'rational' a today la certain quarters derogatory, particularly in the phrese 'merely rational'. As a result of this atmosphere of praise and blame which words unfortunately exade, the reader is disaffected by an author who misplaces terms of enlagy and derogation, and while this disuffection in so way implies disagreement in matters of analysis, it so beclouds the issue that the reader dissents without reason. Thus, for instance, in our restricted meaning of the term 'empirical ecience' we would say that anatomy is not an empirical accesce. But the reader thinks that anatomy should be praised; it is an admirable and highly useful body of knowledge; he objects, therefore, on no other ground than that anatomy has been derogated. But to say that anutomy is not an empirical science is not to say that it is not admirable or useful. We are using empirical erience in a sense which includes physics and excludes anatomy; to include both would change our meaning and our analysis of the nature of ampirical science. There is so derogatory impetation involved, unless the reader agree with no that as knowledge physics is more admirable than seatomy. If he does he will not object to the imputation; if he does not, he must still attempt to understand the distinction we have made even though III adds, for himself, that anatomy is semshow heizer, even if it is not erientific in the sansa defined.

The main suggestion to the reader in this matter of terminology is that II II becambest upon him to keep karlolate the distinctions which the authors make. He must remember that the distinction of two fidings in always in a certain specified respect and that, hence, distinction duts not always to deap similarity in other more generic respects. The reader finds the authors III error whenever he discovers an untemplate distinction or an inconstancy in makyah on a result of incompatible distinctions; be cannot claim error merely by insinting upon the similarity of

two things is a respect other than the suc in terms of which they have been distinguished.

We now turn to a number of doctrinal points to which we wish to call the reader's situation.

(1) The distinction between admittle knowledge and common sense knowledge to crucial to the argument of this book. Common sense knowledge to defined in Chapter IV as consisting of highly probable generalizations derived from the common experience of mankind. These generalisations do not form a system or even a compendent not; they do not countitute a science They are distinguished from the episions of individuals in that thay agreem the uniformities of common experience. Common sense knowledge must be distinguished from common sense or princence It is by common sense that the ordinary practical activities of averyday life are directed; it is common same which derives from experience the generalizations which we have called common some knowledge. The generalizations of empirical science, like those of common sense, rest upon experience and are derived from it by produce and intelligence; they differ in that their derivation intelligence directed methodically and is alded by special techniques, and in that taken together they constitute an analysis of some limited portion of experience which is the subject matter of a particular science.

The distinction between scientific and common seems knowledge. It has to the distinction which we make between the practical problems involved in the control of crime, on the one hand, and those involved in the improvement of crime, in the one hand, and those involved in the improvement of criminal justice, on the other. We have common same knowledge both about the phenomena of crime and about the kind of activities which occur in the administration of the criminal law. In both cases we also have descriptive knowledge. Walving for the moment the question of the validity of this descriptive knowledge, we hold that the common sense generalizations which we pomens about the phenomena of crime do not enable us to interpret any descriptive knowledge of these phenomena; our descriptive knowledge therefore re-

mains insignificant and we are mable to control or prevent erime. The reason for this failure can be stated simply; the common sense generalizations which we possess about human nature are inadequate before the complexity of the fundamental theoretical problem of crime, the problem of its causes. We understand the complexity of this problem sufficiently wall to perceive immediately the inadequacy of our common sense knowledge. On the other hand, what we commonly know about the conditions of afficiency in the administration of other enterprises enables us to interpret our descriptive knowledge of the processes of criminal justice and to formulate a dednite practical program for their improvement. In short, the practical problems of criminal justice can to a considerable extent be solved by common sense knowledge although scientific knowledge would be more usoful. But the practical problems involved in controlling criminal behavior require scientific knowledge for their solution, knowledge of the etiology of crime which common sense does not provide.

That common sense knowledge is not adequate for the solution of the practical problems of preventing or controlling crime does not mean that common sense (ordinary produce or practical intelligence) can be dispensed with in their solution. Science by itself never solven practical problems; actsocs must be applied to particular cases since practical problems have their locus in the particular. The practical employment of acteron is technology, but sechnology is like actance too generalized in its rules and formulations. Technology must be guided by common sense in the particular situations in which it ill used, since they are atways disatular and present novelicine to which technology must be adjusted by intelligence. Intelligence or consonn sense must modify and quality the rules. An empirical science of crimnology is a necessary but not a sufficient condition of the wistion of the practical problems of controlling crime.

(2) There are a number of hodies of knowledge which are not merely aggregations of descriptive knowledge and yet are not empirical sciences. They are not empirical sciences because they ZZÍT PERFÁLE

full to satisfy the condition that their general propositions easume functional form. Such hadies of knowledge as auatomy and systematic botany are constituted by nets of compendent general propositions which have probabilities determined by reference . empirical evidence gathered by observational work of an extremely careful and precise port. But these general propositions state the characteristics of chance of cutties; they do not formulate the interdependence of these classes. The classes, in other words, are not adequately defined but are merely described; when the members of a set of classes are defined they necessarily become related by subsumption and dependence; and these relations are expressed in functional formulas. The construction of a set of clauses which are sufficiently described to be differentiated in a taxonomy, that is, a taxonomy is a classification, and it II a body of empirical knowledge when the classification is based upon ampirical evidence. Anatomy and systematic botany are empirical taxonomies. An empirical science is an attology: It is not merely a classification, but an organization of classes as interdependent. Anatomy and systematic botany are not empirical aclauces, although they are stages in the development of empirical sciences which will appear when the classifications are refined into definitions and functional formulations can be derived. Anatomy, for instance, will some day be absorbed into a developed ampirical science of physiology. That anatomy is new popularly recognized as an independent empirical science III due to the fact that it il an extremely useful body of knowledge; but that it has this popular status must not mislead no. A useful taxonomy is not an ultimate development of empirical investigation II any field; it is not coordinate with etislogy but a procursor thereof. Etiologias are developed out of incommiss.

This distinction between taxonomies and cliningtes anables us to make two farther comments which are not made arplicitly enough in the text and which may prevent misuarcherstanding that have already occurred. In the first place, our distinction between descriptive knowledge and empirical science in a distinction between the ideal limits of a sprice which has many intermediate

stages. A given body of empirical knowledge may not be either descriptive or actentific in the sense that it is exclusively the one or the other. It may be somewhere between these ideal limits: may have some of the truits of knowledge which is merely descriptive, and some of the trains of a perfect ampirical science. Taxonomies represent an intermediate stage of this sort; there are many other stages between these extremes which cappot be named. When we say that the sacial aclences are not yet devaluped as empirical achaeon we do not mean that as they scial they have none of the traits of empirical acience, but rather than they possess there traits to an insufficient degree. There are bodies of knowledge, such so that which II called 'descriptive aconumics, which are not merely descriptive. Descriptive economics II to some degree taxonomic; similarly there are naris of perchology which are developed as taxonomies. These bodies of knowledge represent stages in the development of empirical social sciences in the same sense in which anatomy II a stage in the devalopment of an empirical biological ecience. We might add here that our distinction between empirical and rational science is in the same port. Empirical science and rational science are defined as ideal limits of a series. A given body of knowledge may possess some of the traits of empirical ecience and some of the traits of rational erience; it can be watched historically in its development from one extrame to the other; what starts as sancirical science becomes tutional science by passing through Intermediate starce of development.

- In the second place, our criticism of what currently passes as social science is thoroughly mismateratord if it is read as expressing a note of ultimate and irremediable possimism. Quite the contrary. It must be read as an argument for the possibility of empirical science in the various fields of social investigation. It is perdimistic only in the sense that it reitensies the warning that unless the methodology of these investigations is corrected, that boughtity will never be realized.
- (3) In Section 2 of Chapter XI the controversy regarding the justifiability of the punitive and the non-punitive ends of the

TIVE PREFACE

criminal law in analyses, and a resolution of the opposition is offered. The relevance of this discussion to the problems of criminology has probably not been made antificiantly clear. It is crucially important, however. If it were retionally impossible to hold any position other than that justice requires all criminals to be punished, then even though it were established that punishment is responsible for recidivism, society would be enjoined from reducing the amount of trains by the elimination of recidivists, since such climination, if achieved by non-punitive modes of treatment, would be ensentially majort.

Our conclusion in Chapter XI is that it W rationally impossible to hold the position that justice requires all criminals to be punlahed; that the determination of whether criminals are to be treated punitively or mon-positively rests ultimately upon the determination of the effects of each trestment. In short, we have asserted that the Aristotelian position is the correct one, and that the Kantlan position is intrinsically untenable. But our resolution of this opposition is imperfect to the extent that we have failed adequately to state the Kantian position. Our analysis of the controversy between the positive and non-punitive schools in accurate to the extent that it deals with the positive position in the terms in which it is traditionally stated by the followers Kant. This traditional formulation is putenable. But Kant's own position rasts upon grounds which we have not examined in the text. They can be stated briefly as follows: ethical considgrations are prior to and independent of political or social conadderations; furtice considered ethically is concerned with the rightness of the individual utterly spart from his goodness as & citizen and the welfare of the state. Punishment II justified in indispensable to the correction of the erring individual will; a society which inited to punish criminals would be ethically defactive even II it achieved the social welfare by this fullure. The Aristotelian position, on the other hand, views politics as the architectonic ocience; the individual good and the social good are interdependent. Crimes are acts which are essentially social or political in character, and hence the determination of the treatment of the criminal must be with reference to the good of the sints.

The question of the priority of ethics or politics cannot be fully discussed here. But even if the opposition between Aristotle and Kant on this point is ultimately not resolvable, there can be resolution of the controversy about the final end of the criminal law. The resolution of the latter opposition is clearly indicated, The emminal law is an instrumentality of the state; honce it is proper for its end to be a political end, that is, the good of the state. Kant recognizes this when he considers the criminal law and what III calls political as opposed to moral punishment, as progratic. It is irrelevant that a merely progratic criminal law must be, for Kant, wastblook. A body of criminal law which ceased to be pragmente to this sense would cease to be a political instrument. In short, a body of criminal law which | justified. antirely by sthice), and not at all by political, standards must necessarily he Divine law; it cannot be state law. Our conclusion in Chapter XI that the and of the criminal law is not necessarily punitive, is correct, although the grounds of that conclusion, so far as they involved a denial of the Eastien position, are not there adequately stated.

(4) We have maistained that an empirical science of criminalogy is possible. It has been objected that such a not the case because crime must be defined in terms of the criminal law. The objection can be more explicitly states. Specific crimes change with changes is the behavior content of the criminal law. But criminal vary with changes in the criminal law? This objection can be answered. The criminal law is to formal cause of crime. The criminal law is for formal cause of crime. Although the efficient and material causes of independent variation which can be investigated when the formel cause is held constant. It is an essential condition of the possibility of an empirical science of unimal law be viewed as a constant formal cause. A developed

science of erimanology will contain a number of diverse citiologies of crime seconding as crime has different formal names. It is only necessary that each of these dishugion, which is an unalysis of the efficient and material causes of crime, explicitly state the definition of the crime under investigation, that is, its formal cause.

The answer to the objection can be now more clearly if it is realized that crime gen crime has no efficient or material came, Only specific crimes, namely, such which are crimes by respon of the behavior content of the criminal law as formal came, are subject to attological investigation. Hence to say that since behavior is criminal plants it is made so by the criminal law, an ampirical science of criminalogy is impossible, would be to say that the sticlogy of specific kinds of conduct is intrinsically incapable of being known. If this were the case, an empirical science of human behavior would be inspensible. But there are no grounds, either rational or empirical, for supposing this to be the same.

If all that is involved in the objection under consideration in that a fully developed empirical network of human behavior would measurafly include an empirical actions of oriminology, that is, of criminal behavior, the objection is granted, but it will be noticed that thus formulated the objection does not ensure that criminology is impossible because the criminal law in the formal on me of orima.

We conclude this preface, as we began it, by refurring to the project which made this book passable. We refer to it again for the purpose of recertling our great indebtodness to the Bursts of Rocial Hygians which initiated and financed the survey, to the members of the Bursts's staff who aided in its association in every possible way, and to Massac. Burst Brusol, Charles E. Geblieg Alexander M. Kidd, Gestge W. Kirchevey, Raymond Moley, Morris Alexander M. Kidd, Gestge W. Kirchevey, Raymond Moley, Morris Bleans, Edwin H. Rutherland, Williams I. Thomas and Leon A. Tulin, the distinguished group of warkers in the finite of criminology and of criminal justice, with whose assistances the survey was

conducted. We hasten to add, however, that the analysis offered in this book and the conclusions and recommendations based thereon are nors alone, and that them gratieness are not to be hald accountable for them.

We must also express our gratitude to Deau Young B. Smith and Professor Karl N. Llowellyn of the School of Law of Columbia University and to Mr. Arthur Rubin, who with unbounded generotity have beined us in this undertaking in ways too numerous to mention.

The authors wish finally to say that this preface is also an applicate and should be read as such.

J. M. M. J. A.

December, 1982.



PART ONE

INTRODUCTION

Chapter I

THE NATURE OF CRIME

Such words as crime and criminal, delinquent and delinquency, are currently used with a variety of meanings in technical as all as in popular discussions of coinse. It is therefore meaneary at the vary threshold of this discussion that we should precisely state the meanings with which we shall employ them.

It is important for purposes of discourse and exposition that these words should be deduced as precisely as possible; it is sum more important, as we shall see, for purposes of the study of crims and criminals. It is, for example, impossible to observe and study oriminal behavior unless ill can be defined in such a way as sharply to distinguish it from non-criminal conduct. So, too, unless the class of criminals can be defined in such a manner at of distinguish them from the class of con-criminals, we shall be numble to identify criminals in the general population and, hence, namble to observe and study them. In brist, we cannot hank empirical knewflagations of crime and criminals unless we have some basis for differentiating criminal from other behavior and criminals frems other persons, which is so precise and definits that we will not confirm them in our observations.

Attempts have been made to define crime in moral terms and in social terms. The definition of crime an abservior which is tranval lacks precision and cliently. Opinious on questions of morals are notoriously diverse and continued. If there was ever a time when the population of a community were single-minded in their noral judge-senie, that time has long diver passed. There is no more: cois to which all men or even all men is a single community subscribe.

The definition of crime as autinocial behavior is hardly more precise or less ambiguous although it does shift the emphasis somewhat from what is thought of as the instrinci quality of conduct to its social consequences. But we do not know and our saldom discover more than the initial and immediate effects of any behavior, and even these we can often know only in a superficial way. Moreover, here, ugain, values with respect to which there is no guessal agreement introde themselver; again we are confronted with the necessarily largely personal. It is not enough to know the consequences of behavior; we must pass judgment upon them as social or embourier; we must pass judgment upon them as social or embourier.

The most precise and least ambiguous defaltion of crime is that which defines it as behavior which is prohibited by the criminal coda.1 The criminal law describes many kinds of behavior, gives them sames such as marder and accon and rape and burplany, and proscribes them. I crime I defined in level terms. the only source of confesion is such embiguity as may inhere in the legal definitions of specific crimes. It is cometimes difficult to tall whether specific conduct falls within the level definition. whether, for example, a specific homicide is marder or what degree of murder, as that offense is defined by law. But even so, the legal rules are infinitely more precise than moral judgments or indepents with resard to the autisocial character of conduct. Moreover, there is no much way of ascertaining what kinds of behavior are generally remarked as farmural or antisocial by the people of any community than by reference to their criminal code, for in theory, at least, the criminal code embodies social judgments with respect to behavior and, parhaps, more often than not, fart conforms to theory. Most of the people in

Not only is the legal definition of crume practic and unandrawam, but it is the only pathful definition of crume. This is what is manut by the subsequent statement that the crussant libror is the first and compe of cross. The definition of particular crime by the crumsule leve may be undergone in the state that it may not onlice cruming in the bypass of lattices which shaded by somile crumsule.

any community would probably agree that most of the behavior which is proscribed by their criminal law is socially underirable.

Questions as to the immeral or antinocial character of behavior thus enter into the question whether a specific kind of helmiter shall be problibited, that is, shall be made criminal; they are, as we shall see, questions for the legislator. But they do not enter into the questions whether specific kinds of behavior are criminal. To answer that question one need ascertain only whather the conduct is question in president by the criminal law. In other words, a crime is merely as instance of behavior which is prohibited by the criminal law. It is in this sense that we shall use the term crime throughout this diacomium.

It follows that a criminal is a person who has behaved in some way prohibited by the criminal law; and he is a criminal whether or not he has been convicted of his crime or, indeed. whether his crime is known either to bimedif or to anyone else. However, unless criminality has been efficially determined by the land processes established for that purpose, it must nearly always remain in doubt. The most certain way, therefore, to distinguish eriminals from non-criminals is ill terms of those who have been convicted of crime and those who have not. It would obviously be most difficult in any other way to identify the immoral or entisocial persons in the population or to distinguish between crimingle and non-criminals. We do not mean to say either that all persons convicted of crime are criminals or that all criminals are convicted of their crimes; we mean to my only that both for practical purposes and for theoretical purposes we must procoad as if that were true. However inadequate conviction of crime may be as a test of criminality, in an other way can criminality be established with sufficient curtainty for either practical or scientific purposes. The criminologist in therefore quite justified in making the convict population the subject of his studies, so be does.

In the same way and for the state restons we shall use the word delinquency to mean the criminal behavior of a person below some age growershed by law, and the term delinquent to refer to a person whose definquency has been officially determined. The legal definition of delinquents often includes young persons who are neglected or whose conduct and environment seem to point III a criminal curver. Words such as these are too vague and indefinite to coulde up to distinguish between young persons who are delinement and those who are not. Throughout this discussion we shall therefore we crime and delinguency as identical terms, except that by the former we shall mean the oriminal behavior of adult, and by the latter the eximinal behavior of inventile, offenders. Delinquency often precedes criminality in the case of the same individual, and delinquency is commonly regarded as a stap in the development of criminality. Indeed, as will later appear, a very large proportion of all criminological research has been concerned with delinquency and delinquents rather than with crime and criminals. In this discussion we must therefore take delinquency as well as crime into account. However, in large part the problems of crims and deligangance are identical. It will therefore not be processory as a rule to conalder delinquency as such or to dietlaquish between criminals and delinquents. We shall use the word offence to refer indiscriminately in oriminal and delinquent behavior, and the term offender to refer in the same way to criminals and delinonents.

As they saist in the general population, the class of putmital officers inclindes these who have as well as these who have never offended. However, we shall find it necessary to distinguish between those who have seed those who have never committed orimes or delinquencies and we shall refer to the forest us actual, and to the latter as potential, offenders, estimitation or delinquencies.

⁹As we have such, the most carbale way as which to deformalistic between thouse who have and those who have sever offended as fact, as an icrust of the official determination of their crimination of other commonthy or elimination. It is also possible that one who caust be classified as an actual offender because his "goal?" has here officially determined to the control of the

Actual criminality or delinquency thus has reference to behavior which has occurred in the must; potential criminality or delinquency to that which may occur in the future. We shall have force use the term criminal or delinquent behavior to rafer both to actual and potential criminality or delinquency, to crimes and delinquencies that have been committed in the past and to those which may be committed in the future

There are other reasons for defining crime and criminals and delinquency and delinquents as we have defined them. The amplical studies which have berestofare been made of criminals and delinquents have abased invariably been studies of parsons whose criminality and delinquency. Here, in the first place, taken the form of belavior which is prohibited by the criminal law, and have, in the next place, been established by legal processes. Obviously, criminals and delinquents cannot as a role be studied until they have come into official createdy and have in this way been agregated from the rest of the population. To define crime and delinquency, criminals and delinquence, in other than legal terms, would therefore be to ignore the conditions of pest as well as of future recognity in the field of criminals behavior.

If crime is merely an instance of conduct which is prescribed by the criminal code it follows that the crimical law is the formal came of crime. That does not mean that the law produces the behavior which it probibits, although, as we shall see, the enforcement or administration of the crimical law may be one sill the factors which inducese human behavior; is means only that the crimical law gives behavior its quality of criminality. Without a crimical code there would be no crime, however much immoral or socially understandle behavior stight survive its repeat. From this point of view, the question involved in the formulation or amendment of a criminal code can be stated as what crimes do we wish to cause. As we shall see, this is a useful way for the law maker to state his problem.

^{*}There are exceptainal similars of potential offenders in far extension, Laguerd's study of the aspectation of street gauge, or Resof charvestons of performanced protections and four offer in Intigliance.

Chapter II

ENOWLEDGE AND PRACTICAL PROBLEMS

Section 1. Practical and Theoretical Problems.

It is impossible and unnecessary for our nurposes to consider all of the numerous problems of crime in this book. Our object will be to discover the more important and pervasive of these problems and to ascertain what knowledge we now have which is relevant to them and what further knowledge we need as a condition of their solution. Our discussion of these matters will be simplified and clarified by a preliminary analysis of the problems of crime and some consideration of the part which knowledge can play in their solution. Some of these problems are to be remarded as fundamental in the sense that a solution of many others is dependent upon their prior solution. Not all | the problems of crime are of equal practical importance. Furthermore, they can largely be reduced to types, so that to consider any type of problem is to consider every problem. If that type, Finally, the kinds of knowledge and the ways in which knowledge can be utilised in practice are not unlimited. We shall accordingly find | possible to report the results of our studies in terms of the relationship of different kinds of knowledge to problems of various types.

All of the problems of crime are either practical or theoretical problems. A problem is nothing more or less than a question, and the solution of a problem is merely the amover to a question.' A practical problem is a question with respect to alternative

[&]quot;If the problem is a growing case, it is a question which can be interested at the free; it is adopt as at least fore vages, of the question ultimits of only one sourcer, there is no problem. The process of orliving an question problem is that of determining which of possible saturers should be made to a question. The question whether one critic exists is not a guessian problem; in the legist of our increasingly it is impossible to stayed; that cruze dump until cond. The question whether or not it is desirable to retainful an amount of commandings at this time, is a question problem; it is driving possible to amount other float it is one that it is not described.

courses of procedure or of action; it has its locus in the realm of affixe. The answer to a practical problem always takes the form of a decision or judgment, requesting the manns by which some end is to be attained. It is clear that every practical problem involves two questions, namely, what is the set which we destre to active and by what means shall we endeavor to achieve it. The answer to a practical problem can thus always be stated in terms of means and each; but it is shrious that the question as to acid must be manered flux. One sed having been datarnined, the salution of a practical problem involves the choice among alternative methods of accompilising it. If there is only one method, there is no problem; if there is no method, the practical problem is for the time being insoluble, but in that event there is a theoretical problem which very or may not be insoluble.

The nature of a practical problem can be indicated by referance to the treatment of offenders. As a practical problem, it gives rise to the quanticoe what ere the eads to be sought in the treatment of actual offenders, whether their punishment or incopactuation or reformation, or the detervance of potential offenders, or some other, and what are the means which shall be employed for antiving the particular and or each which the treatment of offenders is to serve.

It is important to observe that each may be ultimate or intermediate, and that intermediate ends may be of varying degrees of proximity. As altimate end is the final purpose to be achieved by any activity; it is in to achieved for its own sake and not as a means to any other end.* As intermediate end, on the contrary, is always a means as well as an end; it is to be achieved as a method of accomplishing some more distant purpose. This purpose in turn may be a means of accomplishing some other and still more remote purpose; and it will ulways be, unless it is finelf our final and. Thus, as the ultimate end of

⁸The officiable end ment be disampsealed from particular determinations of it. Happiness to the food end of leases comback, but were disagree as to the nature of happiness and hours as to the means for unknowing at. But however happiness is defined, it is always untight for its department.

the practical activity which we call the administration of the criminal law, the protection of society against criminal behavior is not a mean to any other end? Among the possible means of protecting society by the treatment of offenders are, let us say, the reformation of the actual offender and the detarrence of the potential offender. But means must now be found for reformation and deterrence; from this point of view each of these means for pretecting society becomes an end. If it is assumed that actual offenders can be reformed and potential offenders can be deterred by the punishment of these who commit orimes, the punishment of actual offenders becomes our more proximits purpose. This is to be achieved by the enforcement of the criminal law, which thus becomes our more proximits.

Since an intermediate and is always a means as well or an and, it is important, as we shall see, for both theoretical and practical purposes to distinguish between intermediate and ultimate ands. The only question with respect to an ultimate and is the means of stiming it. An intermediate end gives rise not only to that question but also to the question off its afficacy as a means. If we regard possiblement as the ultimate and of criminal justice and administer punishment for its own cake, we are not concerned with its effects; the only question is whether or not this or that method of treatment constitutes a punitive device. But if we regard passishment as an intermediate end, as a means to reformation and deterrence, we are very much construct with treatment or reformative and deterrence, we are very much construct with treatment.

A theoretical problem is a question with respect to knowledge. The sawer to a theoretical problem is always stated in terms of knowledge, and sever in terms of decisions and judquepts. The distinction between practical and theoretical problems is indicated by the standards by which we evaluate their solution. The colution of a practical problem is a decision or judgment which

Filtrat is, the formed verifience, the constraint ground, so the formed and of politratal activity, but it can as form by reservation as a manus to the end of the hospitances of the rod-victual content. In other words, the techtions of the state; in a conditions of the paper-tens of its searches.

is sound or cameumi, wise or newise, just or unjust, is felligent or unistelligent; the unistion of a theoretical problem is a proposition which is either true or fulue or probable. If II wise or unwise to punish existingly; it II true or false or probable that criminals are referenced by punishment. Our immediate interest in the solutions of a theoretical problems into add to our knowledge; our immediate interest in the solution of a practical problem is not to acquire knowledge but III accomplish some other purpose.

That does not mean, of course, that there is no relation between practical and theoretical problems or between knowledge and practice; the fact is otherwise. Thus, the problem of the canastion of criminal behavior is a theoretical problem raising questions as to the factors responsible for the occurrence of crime. In contrast, the problem of the treatment of offenders can viewed as a practical problem raising questions on to the policies and methods to III employed in dealing with criminals and delinguents. Our primary interest to the solution of the theoretical problem of enumerion in to add to our knowledge; our primary interest in the solution of the practical problem of treatment is not to add to our knowledge but so accomplish some other purnone, such, for example, so the reformation of the offender. However, there is obviously a close dependence between what we can learn of the comes of crime and what we can do to treat its agents so as to reform them. Purthermore, knowledge of a nort can be gained through action. Practical programs often necessarily transvend existing knowledge and in that sense are agreements which within limits can contribute to knowledge.

It therefore becomes necessary for us to impaire into the utility of movelept in the solution of a practical problem. It is important to remember that, as we have said, only a theoretical problem has be assured in terms of knowledge. Therefore, takes practical problem give rise ill questions which can be assured in terms of knowledge cannot contribute to

 $^{^{\}circ}$ It will be seen inter that the trustment of ollendars is also part of the described problem of canadian,

their solution. Indeed, there is no better way to discover the utility of knowledge in practice than to discover the theoretical aspects of practical problems. To the extent that these give rise to questions as to knowledge, knowledge can be utilized in practice, but no further.

Section 2. The Theoretical Aspects of Practical Problems.

We must again distinguish between ultimate and intermediate ends. An end is some value which we desire to achieve, and the choice of the final end to be statismed by any activity silvarys involves a choice among values. He amount of inowledge shout crime and criminels will answer the question what shelf he our nitimate objective in the treatment of offenders! Even were knowledge complete it would still be note, for example, to say atthat that punishment or the protection of society shall be our ultimate and in the treatment of offenders. Were the question a theoretical question and were our knowledge complete, it would be possible to answer if it only one way; there would no longer he are very later.

Questions as to intermediate ends stand on a different footing from questions as to ultimate ends. The former are questions

17that does not make that knowledge cannot unfannes the choles of gods. The question what sought to be or when about the our family purpose at any according to that meanly construct the meaning to publish would descrately a partnersyllation of such litt understands mend not und may not under entered activation of their principal problems.

problems. FWs can sale, of course, what are the effects of pushinemal, and with knowledge of those effects we may despit their yet will see longer grasph offenders but will train from by one effects we may despit their yet will see longer grasph offenders but will train form by one purchase and the Superbandly at supplications and one convicted of them by the see that the superbandle of effective the subset of the section of the section

as to meens. As we have said, a question as to means arises only when the question as to cade has been answered. A means, in other words, must be a messes to some end. Our end having been determined, the question is what means shall we employ to achieve it. Again, we have a question which is not a theoretical question; it cannot be answered in terms of knowledge, although it presupposes knowledge. It presupposes knowledge that alternotive methods exist of accomplishing the desired end, and III involves a choice among them, a choice which will is expressed in a decision to employ one rather than another method. Our choice among alternative means will be indiscused by practical considerations: it is a matter of predent indement. We may choose one means rather than another because we believe it to be better adopted to accomplish the particular purpose which we wish to accomplish, or because, although we may believe it to be no better adapted or even less well adapted to that purpose than some other means, we believe that some other and which we also desire to achieve will thereby to promoted.

We may, for example, believe that punitive methods are less well adapted that nea-punitive methods to the end of the reformation of offenders, and for that reason decide to employ non-punitive methods in the treatment of offenders. But we may desire not only to reform actual offenders, but also to detar potential offenders, and although we may believe non-punitive methods to be better adapted than pushive methods to the and of reformation, we may nevertheless decide to employ punitive methods because we believe them to be better adapted to the end of detarrance. An a practical problem, the question are to the means to be employed to achieve a particular and say therefore be either a question. If the relative efficiency of various motions of accompliabing the same and or a question of the relative importance to us of that and other soils within the desire to accompliabe

The second of these questions cannot be numered by knowledge, nor can knowledge add in the substitut. We may know that the constitutional privilege against actionsrismation or the constitutional immunity from nurroussable sourcine and geltures

makes it more difficult to convict persons who are is fart gully of orline, and to that extent renders the administration of the criminal law less efficient than it might otherwise be; end yet we may prefer a less efficient administration of the criminal law if we believe that by means of these constitutional provisions we can accomplish some other purpose which we hold dear. We may regard the ancrifice of one value as ton great a price to pay for a more complete attainment of another.

But questions as to the efficiency of means are theoretical quartions. By afficiency we mean nothing more than the adoptation of means to end. Efficiency is thus a matter of dagree and it may range from absolute inefficiency to perfect efficiency. If a means is absolutely inefficient, it is not at all adepted # its end; Il it is perfectly efficient, it is so well adented to its end us to achieve it completely. The efficiency of any means can thus measured only in relation to some end, and the measure of its efficiency is the extent to which it achieves that end. It is apparent that a number of questions can be saked recurding the adaptation of means to ends: Is there eve means to a given end? In this a means to a given end, that is, is it efficient to any degree? To what degree in it afficient? In it mere or less afficient than another means to the same end? By what means has a given end been accomplished? These are theoretical questions, canable of being answered in terms of knowledge, and the utility of such knowledge in practice meeds no demonstration

These questions are to be distinguished from other theoretical australians which can be soled requiring means and each. Thus we can ask what is the end or what are the unds of any of our activities, such as the administration of the criminal law; and what is the character of the means, such as police and prosecutors and courts and prosecutors, which we employ in an effort to achieve those ends? These are questions which can be asswered in terms of knowledge. Be, too, in the question to what estant we are in

These quartons can be assured as terms of ampirical lowwings. There is a further question, assuring what about to the quit of the command law, which is a function question when cannot be assured in terms of conjuried knowledge, but only in terms of reclimate humanidage.

fact achieving any of our each, if our code are of such a character that they can be observed and measured.

These questions are to be distinguished from questions regarding the adaptation of means to ends, in that the latter, unlike the furmer, cannot be answered adely by knowledge which is merely descriptive of means and ends. A question as to the adep tation of means to end is a question as to the relation of one event or thing to another, and knowledge of the existence and characteristics of events and things does not itself constitute knowledge of their relationships. If, for example, we are asked whether a given method of treetment is at all adapted or how well it is adapted to the end of reformation, we will not have answered that question if we merely describe the method of treatment, the offenders to whom it has been applied, and that subsagnent conduct. Indeed, we will not have snewered it although we go further and my that all of these offenders or some of them or none of them committed further crimes. The susstian would still remain whether their post-treatment behavior was to be explained by the method by which they were treated or in some other munner, and that question cannot be answered golely in terms of descriptive knowledge.

Section 2. The Utility of Ensertedge in the Solution of Practical Problems.

It is of the nature of descriptive knowledge that it is always knowledge of particular events and things, of their existence and characteristics. Thus, howeledge of particular crimical activities, careers and organizations, of the psychological and physical characteristics of criminals, and of the characteristics of their triviruments, is descriptive knowledge. So, toe, is knowledge of the characteristics of the instrumentalities, physical and human, and of the nature of the processes employed in the administration of the eximinal law, of the number of crimes committed, arrests made, and presentions begun, and of the course and results of prosecutions. Case histories and police, judicial and penal receptia contain descriptive knowledge. Buch knowledge may be of all degrees of accuracy and reliability, but how-

ever accurate and reliable, it is always knowledge of particular events and things, and never by itself knowledge of their relations to one another as means and ends.

There are two ways in which we can attempt to answer questions regarding the adaptation of means to ends. While descriptive knowledge will not interfinewer such questions, both ways involve the interpretation of knowledge about particular svents and things. We shall rather arbitrarily call these ways the way of common sense and the way of empirical science. We shall later distinguish at sense length between these two procedures and the kinds of knowledge to which they respectively result. It is enough to any that common sense senses ensures questions regarding the adaptation of means to each by interpreting what it observes in terms of its experience of the world about us. But the descriptive knowledge which is employed in the description of clean of that character but rather is terms of the gangral propositions while constructe the theory of that science.

Common sense knowledge about the adaptation of means to ands is often adequate for our practical purposes. As we have pointed out, the first question that arises with respect to the adaptation of means to ends is whether there is any mains to a given and. Common sense can often enewer such a question with sufficient precision for our practical needs. If, for example, our and in the treatment of offenders is their incapacitation to commit further crimes in the community, we know that their removal from the community is a means perfectly adapted to that end. Common sense tells us that death and segregation are means well adapted to ridding a community of the criminals. Common seaso also tells us that there are perfectly efficient ways of putting criminals to death and that certain types of imprisonment are highly efficient because of segregating criminals. And while we will not always know that there are such efficient means as these for accomplishing our purposes, we will often know that there are means which to some extent are adopted to our ends. Common sums will inform us, for example, that a paliceman patrolling a best in a means to some degree adapted to the out of represents orime. Common scarce will also tell us, to take another example, that whenever our means for achieving any end consists wholly or in part of human beings, the more bonest, intelligent, skilled and experienced they are, the more afficient our means is likely to be. And it should be pluin that the more complete and practice our common sense knowledge of the factors in the situation which gives rune to our problem and of their relationships to one another, the more likely it ill that we shall by common sense be able to contrive means which are efficient. But if all the mathods which common sense sembles on to derive prove to be absolutely inefficient, we cannot proceed further without additional knowledge except by trial and error.

We must moreover, be constantly on our guard against the easy assumption, which common sense is all too ready to make, that such success as we appear to here in echieving any of our ands is to Mattributed to the means which we have consciously amployed. Frequently, in the absence of more precise knowladre than we can obtain in the common sense way, we cannot be sure whether we have accomplished our purpose by that means or by some other, of which we are unaware. This is especially true in cases in which we achieve only a partial success. We may have discovered, for example, that certain affenders whom we treated in a certain way thereafter desisted from crime, while others whom we treated in the sume way, did not. In that situstion is would escluinly be unsufe to conclude that the method which we have employed was or was not adapted to the end of reformation. It may very well be that our apparent success or our apparent failure was not due to the method of treatment which we employed, but rather to other factors II the situation. I is often very difficult for common sense to my by what means we have accomplished our end.

As difficult as this problem is, there are still were difficult questions regarding the adequation of means to ends. We may have tried a number of methods, say, at reforming actual offenders, and we may have apparently succeeded in accomplishing our

purpose to some extent by several of them. If we now during to employ the most efficient of these methods, we have to know not only that each of them is in fact adapted to the end of reformstion, but also their relative efficiency. Moreover, the ends which we have set ourselves and the means which we have contrived to achieve them in our efforts winely to solve the practical problems of crime, are more often than not extremely complex. It is very mildon that we can accomplish even our immediate purposes by mechanical masns, however claborate, or by means which are tredominantly mechanical. Usually our mount even to a relatively simple and will consist of a complex of social institutions and human beings. And, Snally, in order to achieve any of our more remote purposes, we will usually find it necessary to endeavor to attain a number of intermediate ends; we will usually have to employ a series of means in order to accomplish our more remote purpose. This is our situation to the administration of the criminal law. One of our more remote ends, although not our final and, in the enforcement of the criminal law is the conviction of eriminals. Ill order to convict them we must detect their crimes and apprehend and procesure them. To accomplish these less remote ands We employ all the elaborate machinery of criminal Justice, a vast conglomerate of spetitutions and officials, of police departments, agencies of prosecution, juries and courts, and of policemen, protecutors, judges and jurore.

It should be apparent that an practical problems become more complicated, common sense will find it increasingly difficult to answer questions regarding the adoptation at means to each and, hauce, will become less and less unaful, although not always unables, in practice. Common sense will find it increasingly difficult to tell whether a given means is efficient to any degree, and even more difficult to my to what degree it is afficient. Common sense will find it increasingly difficult to obtain accurate and reliable descriptive knowledge, and even more difficult to totarpret it in terms of common sense generalizations. We have, as we shall see, a great deal of descriptive knowledge about offenders and their characteristics and those of their environments, of the methods by which we treat these, and of their subrements, of the methods by which we treat these, and of their subrements, or the

have interpreted these data and we have formed many opinious about the causes of criminal behavior and the efficacy of the various methods which we employ to reform offenders and otherwise to control and prevent criminal behavior. And yet the inadequacy of our knowledge to solve these problems is impressively revealed by the prevalence and extent of delinquest and criminal behavior.

Practical problems become more complicated as the rituations from which they emerge and the phenomena with which they are concerned become more complex. As we have said, the efficient adaptation of means to ends is dependent upon knowledge of the relationships that obtain among particular events and things, as the situations from which practical problems issue and the phenomena with which they are concerned become more complex, these relationships become more numerous and intricate, and it becomes increasingly difficult to contrive means for schieving our eads and to measure their afficiency. It becomes increasingly difficult to contrive means for schieving our eads and to measure their afficiency. It becomes increasingly difficult and error is the soft course which is open to us, and that in often no more than a lesp into the dark; we become more and more dependent upon chance for the stainment of our ends; our need for additional knowledge becomes more and more durant.

During the course of this discussion the limits of the utility of common sense knowledge in the solution of the practical problems of crime will be more perceively indicated. We have already suggested that the utility of common sense knowledge in practice varies roughly with the degree of complexity of practical problems. It is only when we no longer have sufficient common sense knowledge to enable us to devim new mounts to our ends or to attempt to make sed means more efficient, that we can say that common sense no longer has any practical utility.

Common sense knowledge having falled un, our only recourse is to trial and error waless we can shirts arisatific knowledge. Questions reparding the adaptation of means to ends cannot be guaranteed in terms of scientific knowledge, but it is sometimes possible to convert them into questions which are capable of being answered in such turns. Means and cods are not categories of empirical science which, therefore, does not speak in terms of the meens end relationship. The only categories of empirical aclence which gre at all analogous are cause and effect. We shall later explain what to meant by cause and effect as those terms are employed in empirical science. Here II is sufficient to say that as categories of empirical science they have a meaning which must not be confined with their meaning III popular usage. Whenever it is possible to state questions regarding the adeptation of means to ends in terms of causes and effects, they can be answered in terms of scientific knowledge or, at least, are susceptible to scientific investigation. When stated in those terms, theoretical questions involved in the means-end relationship reduce to two: What is the cause or causes of a given effect? What is the effect or effects of a given cause?

It should not be assumed, however, that means and cause and end and effect are syconymone terms. Imprisonment, for example, can be recarded as a means to the end of deterrinos. but imprisonment and deterrence cannot be regarded as cause and affect, in the sense in which those terms are used in the empirical releaces. As entegories of empirical science, causes and effects are known so variables; and the cause-effect relation is a certain very precise and invertent relation of variables. In order to state moone and ends in terms of causes and effects it is always personney by analysis to convert such tarms as imprisonment and deterrence into variables. We shall subsaquently explain the nature of variables;" here we need may only that scientific knowledge of cames and effects is expressed in seneral propositions whose terms are variables." The difficulty which common sense experiences in unswering questions regarding the adaptation of mount to ends becomes increasingly great as phynomena become more complex and their possible relationships

BiVe can say here that a variable is a general or universal turn, that is to my a serm which sower releva to a particular there are to a definite agarenate of particular with the picturity outlost of the variable, for common upon a sure and to achieve with the picturity outlost of the variable, and the process of capacitag trans-vited Campter IV we capacita what as involved in the process of capacitag transi-cion of the capacitag transition of the capacitag transition.

become more numerous and, house, more intricate. As whenomens become more complex, it becomes increasingly difficult for common sense to observe them and to discover the eightformes of what it observes in terms of common experience. In many cases, Il is posgible to discover the relationships which we must know in order to answer questions reparding the adaptation of means to ends only if we can translate those questions into questions of causes and affects which can be answered in terms of scientific knowledge. The methods of empirical science are per excellence the methods of accurate and reliable observation and for the significant interpretation III the data of observation; and ecisptific knowledge is to be distinguished from common sense knowledge not only in that it it knowledge of caused relations but also by its greater socuracy. precision and comprehensiveness. Its utility in practice is a function of these qualities; and except | the simplest situations common sepas knowledge cannot be as secful.

While procedures based upon common sense knowledge are less useful in practice than a technology based upon scientific knowledge, they are by reasons of their genetic extensity and suremess more useful than the process of triel and error, which rests not upon knowledge, common sense or acientific, but upon opinions. Scientific knowledge of causer relations enables the technologist to contrive means which are adapted to the ends to be attained. Common sense knowledge of causet relations, whenever ill activit, is stillarly although not equally seafed. Procedures which are directed by common sense those full between true technology which is guided by scientific knowledge, on the one band, and trial and error which is guided only by spainion, on the other.

If the following chapter we shall enumerate, analyse and classify what we conceive to be the fundamental practical problems of crime and attempt to discover their theoretical supects. We shall also endeavor to indicate the kinds off knowledge which are required to answer the theoretical problems of crime. We shall then be prepared in successful publicate to servey satisfulg knowledge in order to determine what howledge is presently available for the solution of the webblems of crime.

Chapter III

THE PROBLEMS OF CRIME

Section 1. The Ultimate Reals of Criminal Justice.

Since the criminal law is the formal cause of crime, since a crime is marely an instance of behavior which is prohibited by the criminal law, all of the problems of crime, practical and theoretical, have their roots in the criminal code." Without a oriminal code, there would be neither crime nor any problems of crime, however similar the problems which would survive its repeal might be. The criminal law consists of a large number of rules embodied in legislative enectments' and judicial decisions, the accumulation of the centuries during which the Anglo-American system of crimical jurisprudence has had its long, slow development. These roles declare in effect that the many and diverse kinds of behavior which they describe, usually in very rezeral terms, are socially nedestrable, cannot and will not be tolarated by society, and are therefore prohibited. This we may call the behavior content of the criminal law. The criminal law also provides, again quite generally, what shall be done with those parsons who behave in the proscribed ways. They shall be put to death or deported or imprisoned or whipped or fined, and so on. This we may call the treatment content of the criminal law. The criminal law consists of propositions and exists in books.

It is obvious that the criminal law neither makes nor applies itself; it is made and enforced by men whom we call officials and who in one way or another have because acciety's representatives for those purposes. By eviminal justice we shall mean nothing more pretentions than the administration of the criminal law as

By the crucical law we meet the substrative, as desinguished from the adjustive or procedural, creamal hou.

"Hy logistrays emechanis we mean both statutes and orderance. We shall not find it necessary if datagraph furnished flow.

it exists at a given time. Viewed most broadly, the administration of the criminal law consists in the application of its treatment context to thom who violate its behavior content. The processes of criminal justice therefore include all official activities in the detection of crime, the pursuit, apprehension and prosecution of criminals, and their treatment. By the administration the criminal law we can only mean the aggregate of the activities of officials to the enforcement. In this espect, the criminal law in law in action.

The babavior content of the crimical law raises the quartion what beligylor shall be made criminal; and the treatment conient, the question what shall III done with those persons who commit orings. These are foodsmental among the practical problems of eriminal justice, but they cannot be solved until the ultimate ends of criminal justice are determined. Making behavior criminal and treating offenders are merely means to ands. Whatever the pitimate code of criminal funtion may be, they are social judgments regarding the final purposes to be accomplished in dealing with crime and criminels by legal institutions and devices " Unfortunately, these judgments have been nowhere authoritatively and explicitly declared. They must be authored from the original law itself and from the liberature of syminal instice.

The ultimate ends of existing systems of criminal law mem to reduce to 100, to retributive justice and the protection of society." By ratributive justice as an ultimate end we man the

PThese approves have for the true heary been accovered by the criminal law and The experience have not the thing been above only the Crimicals are tall they therefore resolve distinctives note questioned regarding distinction of the Crimicals and tall the particular regarding modification of the Crimicals code. A question regarding modification of an establish laddent/on or proceders in a question of rivines, which is observed on extract questions.

"Of course, we semplate that they may represent only the information of founds or of acone smaller or large the downwart survival grown Percenticions, they are to

or of some smaller or harge but downwart serial group. Nevertheless, they are its theory useful significant in our proposes to stronge, and we have not attempted, a very precase and exhaustors summarishm and analysis of the labrarier ends or remnant) justice. Our might, perforance, still its notificance institute of the protection of seasory financial economy, the administration of popular attribute toward group and criminals. The immerisation will be mother of two-timent and even other and and criminals. The humanisations were not the mother of two-timent and even other and justice. The end of large-specialism second to procuping sensitive methods of transferred and to include their manifestations. We military this for his own military best past of the transferred

infliction of pain upon criminals as relativation for their crimes. We shall rater to a system of estatual team whose utilizate and it retributive justice as a punitive system. By the protection of society as an ultimate call we mean the sufeguarding of what are conceived to be vital social interests spained behavior which is known or believed to be instincted to those finite-sents.

First, then, among the fundamental practical problems of criminal justice is the problem what the ultimate ends of criminal justice shall be. The solution of this problem involves a choica of the final values to be echieved by the administration of the criminal law. The criminal law us it exists at any given moment reflects our choice, but the problem, as we shall see, confronts us snew whenever a proposal is made to after either the behavior or the treatment content of the criminal law. The theoretical aspects of this problems are what the ultimate ands of criminal justice are at a given time and what they should be at any time.

The question is, therefore, how much pulse shall we reflect, a question which, as we shall sea, cannot be assessed as terms of linewicking. The end of francial quomony grapposes given a posterior we new-positive equals to a temporable or time try it does der affect the objective of the system sublempts it may refuse the temporal matches of treatment. We may prefer for affection firstlinds because they are being in administer. Francial excitosity develors could be it is trapported and for it is threatened to the contract of the country develors could be it is trapported and for its trapported and for the trapported of the country of the country develors are a practice options it, as has been said, a deviant of organization of the depart for vergeazies may be and to be the objective of the depart for vergeazies may be

While part may be affected upon crossease in a conspicuous opening of crushed plutter, it will not be unfinited for she own size left in a translate to the central of tribleant hubbover. A parafree greener of parties has been called a syntax of organization. It is nonminest addentated on the growed that by maintying enters a paide or a private desire to be averaged spain crossmalls, splittle reciproce is admirable for a private desire to be averaged spain crossmalls, splittle reciproce is admirable for a private desire to be averaged spain crossmalls, splittle reciproce is admirable for a popular of their from the provide of verse pins in other splittle from the position of the provided provided and assess for makinteener public certair. Fundament from the point of yww is not as absent for makinteener.

[&]quot;We may enthance to control command believes by official or modificial mesos, and of official derects of regard plattice is only one, but it is this one well, which we are interestinally concerned. We shall have refer to other efficial derects and to modifical derices for controlling crisisonal behavior.

⁶A system of craminal justice may, of course, have a resulter of attimate male.
A position and the protection of society man to in ultimate each of the Anglo-American system.

Me a subsequent discussion of the criment have we shall rewert to the problem of ultimate each and we shall then Settler consider in theoretical asympto.

Section 2. What Balarrier Shall Be Made Criminal.

The retributive and retalizative alm of criminal justice in probably the most primitive end of criminal justice. Whether or not the principle of low fallowin now lies at the basis of criminal justice, whether or not it is accurate to my that the primary interest at the sriminal law in today restributive and punitive, there can be little sloubt that retributive punishment in at least one of its alliance ends. Retributive punishment proceeds upon the theory that the appears of suffering inflicted upon a crimical should somehow be prespectiousts in the cormity of his offense and to the public indignation which it accuses.

If, therefore, retributave punishment is to be the final purpose of criminal faction, the character of the behavior content of the criminal law will be determined by the capacity of behavior to arouse our indignation. The question what behavior shall be made criminal, will be answered in terms of our likes and dislikes. If our diskine for any conduct is sufficiently strong, we will make it criminal, and the seriousness or magnitude of the resulting crime can be measured only by the intensity of our dislike for that type of conduct. We may dislake behavior either because of what we know or believe to be its consequences or without regard to its consequences. If may not arouse our indisnation although its results are determental to the common walfure, and, on the other hand, it may arosee our indipnation although its consequences are not known or even believed in he inimical to the common good. In may be onite anough that beharlor rans counter to strong and deep-mated prejudices. We may, for example, make the expression of certain ideas criminal because we do not like them. In a punitive system of criminal furtice, therefore, the question what believior shall be made criminal, seems to resolve itself into the question what behavior arouse our indispution.

The first question that arises in a non-punitive system of criminal justice is likewise what behavior shall be made criminal. Since the ultimate and of a non-punitive system is the defense of social interests against antisocial behavior, to answer that question II such a system we have to determine, first, what are the social interests to be protected and, next, what behavior is incompatible with them. Down Pound has very generally classified the numerous social interests which we now endeavor to protect by criminal featice as the general accurity, the accurity III social institutions, the seneral morals, the conservation of social resources, the general progress, and the individual life." Whether we agree with this classification or not, it is clear that whatever the social interests which we attempt to safecuard by criminal instice may be, they will represent values, and our determination of those interests will represent a choice among values. Thus, the question as to the social interests to be protected by criminal justice. His the problem of the ultimate ends of criminal justice. is a practical problem.33

Having fixed upon the social interests which we desire to secure by criminal instice, the next question which confronts no in our affort to decide what behavior shall be made criminal, is what types of behavior are incompatible with those interests. Unless we know the consequences of behavior and their compatibility with what we conceive to be the common good, we may prohibit some behavior which is not socially madesirable and which, indeed, may be socially desirable; and we may fall to prohibit other conduct which is in fact anticodal 11 Unless we have rather precise knowledge of the characteristics of those kinds of behavior which we wish to prohibit, we may not describe them in the criminal law with pufficient definitions of our practical purposes. It must be remembered that the proscription of behavior is an intermediate and not a final end; it is a means as well as an end. Oriminal laws are made to be enforced. They should describe the behavior which they neghbbit with sufficient precialon to insure both that they will be applied by the officials who administer them to the types of behavior ill which they are directed, and that they will not be applied a minitar but innocu-

FOCUMENTAL JUNEAU IN AMERICA. How York Hency Work & Co., 1970, p. 5.

130 and later consoler splicities the problem has may become a special and consoler splicities the problem has may become a paper. The creating arminal home may be demonstrated in find-only facus or they may be directed at behavior which we now provide distinctions.

ous forms of conduct." Ignorance of the suture of conduct which we wish to prohibit or the careless formulation of our prohibitions may defeat our purpose "4

We do not mean to my that we shall always find it difficult I know the characteristics and consequences of behavior with sufficient precision for our practical nurposes. The characteristire and at least the immediate communences of many kinds of behavior are suite apparent; and, whatever their other conseopences may be, it is clear that they are inimical to the common good, as we conceive it.10

III other cares the problem II not so simple. We can refer III the types of helsavior which is common eneeth are known as reckctearing and to those which III the language of the luw are known as Inventy, as examples of behavior whose characteristics it II difficult to know and describe with precision " and to traffic in minvicating liquors on on example of conduct whose consequences it is difficult to ascertain and evaluate in terms of social interesta.17 Social values are not entirely static and human behavior and its consequences take myriad shifting forms. There are fashions in original behavior, especially in that of the so-colled professional or habitual eriminals. Moreover, new non-criminal behavior patterns, some of which are quite obviously incompletent

MOne of the purposes of eranemal yearons some to be the definition and delaministics of authority of clinicals in satisfactor by the decreases of criticals in satisfactor with the freedom of the individual to behave so be principles. The individual is to be left free to act as any way which is not producted by the criminal have Of course, the critical party in the production of activate a lact of any party party happy the product of any party party happy the production of activate. Lact of a final party and the production of activate any party party and the production of activate the production of t thent administration

hosts sinterestration. "The so only the example of how the criminal live only stable make for mellic sincy is it enforcement. We shall subsequently refer to officer to the experiment, which is the enforcement. We shall subsequently refer to officer the experiment of the characteristic point of the characteristic point of the characteristic point of the end of t

with the common welfare, develop with changes in the social and economic attracture. It appears to be desirable that the behavior content fif the criminal law should beep absence of changes in helavior patterns or, at least, that it should not lay too far bebind.

We do not mean to suggest that it is expedient that all behavior which is known to be incomputible with the atommor good be made criminal in a non-positive system. A further quantion is involved, namely, whether the administration of the criminal law is likely to be an effective desice for preventing such behavior, atther close or in connection with other preventing such behavior, and operate as a permative device only by enforcing arteni of-sanders and by deterwing potential effenders. The question, therefore, ill whether the presons who are behaving in a particular way which is required as intimical to the common good are likely to be determed from behaving in that way if it is made criminal to do no.¹² This is obviously a question as to the influence of the administration of the criminal law upon the behavior of actual and notamical offenders, a problem which we are about to rountifier.

Nor do we meen to suggest that criminal laws are in fact enacted as the result of a consideration of works interests, of the compatibility of hehavior with these interests, and of the probable efficiency of the eximinal law as a device to prevent such behavior. We suggest only that a ranonal legislative technique in a non-punitive system would be hased upon such considerations.

The theoretical aspects of the practical problem what behavior shall be made criminal are thus seen to be questious regarding the characteristics and comesquences of behavior and the efficiency of the criminal law as a device to prevent behavior which II hostille to the seminant sood.

MTDs behavior which is work common will mainly be believing which is already fortillar in activity. Harriey is every discussed in expellar it specifies to yet of behavior of which there force not discretionize beth frequent semiliaritations. And, of course, instead of nathing it exmand to believe in a certain way, we may make it extends to find to believe in a certain way, we may make it extends to find to believe in a certain way. That is, we may everyby the creamant law as a time of the other way are taken to thing or the other, we are using the creamant law as a design for controlling believer and both the practical and the theoretical gentlems which cause, are largely the potent. Therefore, we shall find it means after by compleming this distinction.

Section 1. How Shall Crimbula Be Treated.

While the choice of resthods of trusting criminals, whatever the ultimate end of eximinal instice, is always a practical problem. It seems impossible to a punitive system of criminal justice to formulate this problem in such a way as to admit of an answer in terms of knowledge. Although one can sek questions regarding the retributive or positive efficiery of modes of treating criminals, such as whimping ar imprisonment, there esems to be no way of answaring them at the present time. There is now no way of dispovering whether or not, or to what extent, a given mode of treatment is efficacione so a retributive device, whether or not, or to what extent, it satisfies the public's sense of Justice and appeared nublic indignation. It seems equally impossible to discover the efficacy of a mode of treatment considered as a punitive device. There is now no way of measuring either the enormity of an offense or the amount of suffering inflicted upon a criminal by a given method of treetment. Until some way is discovered of measuring the magnitude of crimes, degrees of suffering, and the extent of public indignation, and of stating ratios between these measurements, questions as to the retributive and nunitive effects of modes of treatment must remain unanswored."

There is thus no presently available approach to the problem of the officery of a mode of treatment as a retaliative or nunitive device. In so far as the indiction of pain gives rise to problems which can be made the subject of investigation, those problems are not defined by the setributive or punitive end. Thus, as a punitive device solitary confinement gives rise to no problem Which admits of investigation by evallable techniques. It is only When it is considered in relation to such onds as prison discipling or the reformation of octual offenders and the deterrence of potential offenders that it gives rise to problems which are amenable to the meesrch technique."

Within more reason can be considered in relation to different unds. The infliction of pain can be considered and only as a means to file end of publishment, but also as a constant to the end of the protections of exclute, and we shall not consider to the relation to the same and the same an

However, If the ultimate and of criminal justice is the projection of society, the case is different. While in this context the problem of the treatment of offenders II a practical problem, it also has theoretical aspects. Social interests are to be aufegoarded against the consequences of criminal behavior by an effort to prevent crime, and the treatment of offenders thus besomes a means to the more proximate and of the control of crimiual behavior." Oriminal behavior is to be controlled by the incapacitation of the incomigible offender to commit further crimes in the community, by the reformation of the corrigible offender, and by the deterrence of the notantial offender. These, then, are the means to the ultimate and of a non-punitive system of criminal justice, but they are themselves ands, intermediate ands to which the various modes of treating effenders prescribed by the treatment content of the criminal law are necessarily the means. But a mode of trantment can be applied to an offendar only as a result of the administration of the criminal law. The administration of the oriminal law, the application of its treatment content to those who bekave in the ways proscribed by its behavior content, is thus the means to the code of incapacitation, reformation. and deterrance. It is to this mose that criminal justice is a prevantire derice.**

The practical problem of the treatment of effenders is a nonbunitive system can now be more explicitly stated. The system Il how shall allered and actual offenders be breated if our purposes are to increasitate and to reform actual offenders and to deter potential offenders. By incapacitation we mean that so the remit of the method by which he is treated a criminal is to some degree incapacitated to commit further crimes in the community." By reformation we mean that wholly or nertly or the result of

When the advert of the decry and genetics of the individuals. At it is not the development of effect under of treatment them received no make the expedience of one-person of one-person of one-person of one-person of one-person of the person of the person of the person of the development of the column of the person of the column of the c

the method by which he is treated, a criminal cusmitte no further erimes. If he does commit further crimes, he is a recidivist.2 By deterrence we mean that wholly or partly as the result of the methods by which alleged and actual offenders are treated, notes. tial criminals refrain from criminal behavior." The theoretical aspects of the problem of treatment are therefore questions reparding the adaptation of methods of treatment to the ends of interpecitation, reformation and determence.

It is obvious that a method of treatment will be a means to reformation or deterrance only in so for as it exerts some influence. upon the behavior of actual and potential offenders. It II a commonulace that the factors which enter into human behavior, criminal m well as non-criminal, are positive and negative. The positive factors are those which incite to action and the negative factors, those which tend to inhibit action. Negative or inhibiting factors thus tend to counteract the positive or inciting factors, and both notitive and negative factors are found in the cantal background of any instance of behavior. In any inquiry into the caused background of criminal behavior both positive and negative factors must, therefore, be taken into account. We can thus say that any characteristic of a person or of his environment, whether it be a mental defect or disorder, poverty, alcoholism, or a broken home, which activates him toward criminal beleavior, is a posttive factor. In the same way say factor, whether it be the home, a recreational institution, the school, or the police, which trads to restrain an individual from crime, is a negative factor,

Any method of treating offenders may contate as a course infinence in their subsequent behavior or that of other persons. It may operate either as a positive factor or as a wegative factor; it may either incite toward or restrain from crime. The problem

Plant does not mean, of course, that has recollected as the result on whole or in part of the methods by wheals he unto limited.

**Except when they largon to be alleged off-union, potential off-orders do not rather treatment. From they plant of when the framework of potential off-orders as the result of the administrations of the creamond lines in the regarded as took of the

the result of the property of time except

of treatment is thus in one asyst merely a plane of the more general problem of the causes of estiminal behavior, and in another aspect merely a phase of the more general problem of the prevention of crims. Inchest, in a very real sense there is only one problem, the problem of emandies. We shall severtheless find it constants to consider these problems appearably, and to reserve the term preventive measures for other motion, afficial and non-official, of controlling criminal behavior thus the administration of the estiminal law.

In view of the relationship among the problem of the causes of crime, the problem of the prevention of crime and the problem of the treatment of offendare, is should be plain that knowledge of the causes of crime can be applied in the practical activities of treatment and prevention. Indeed, if the immediate ends of treatment are reformation and deterrouse, methods of treetment must be based upon knowledge of camess if they are to achieve their purpose otherwise then fortuiteesly. Similarly, it is only by the application of such knowledge that, except by chance, preventive measures can have any efficacy, since newcestion is morely the process of controlling causes in order to control affects." The problem of causation is thus fundamental among the problems of orims if it is our purpose to control criminal behavior. It is fundamental in the sence that the colution of the problems of treatment and prevention is conditioned upon its prior solution. These three problems may be said to be problems in criminal behavior since they focus upon the causes of the past conduct and the means of controlling the father conduct of actual and notenthe offenders.

The problem of cases in, of course, a theoretical problem, and the theoretical separts of the problem of treatment can now be seen to be phases of the problem of cases. Deterrouse may be

Wildowerer, it is seeliger excession, one genericable that the furnification and execution of programs of breakmant and preventions work upon recognition for transfers of execution. Attended to the extract its electron problems are learned to those extract its electron to the execution of the electron transfers of the execution of the electron transfers of the programsky that the execution that current programs are included with the execution of the electron transfers of the procession are unique of what its generally is shorted or believed to be known, respecting the causes of crime. We shall revent to these anothers in Conpier VIII.

regarded as the balance of positive and negative infinences upon the behavior of potential offenders. A potential offender will be deterred from crime it the factors, including mothods of treating actual offenders, which restrain him from, predominate over those which incite him to, criminal conduct, and vice verse. Reformation, like deterrence, in the result of inciting and inhibiting forces, including methods of treatment. When the positive forces predominate, what is commonly called recidirine occurs; when the negative induces prevail, reformation occurs. Thus the determination of the reformative or deterrent efficiency of any method of treatment depends upon an analysis which will reveal and isolate its positive and negative influences upon the bahavior of satural and contrain offenders.

The problem of treatment has further theoretical aspects. The first is what are the methods of treating offenders. A mode of treatment is usually a very complex institution. While terms such as imprisonment, probation and percis, are useful as indicating modes of treatment, they send to conceal the complexities of methods of treatment, which are always variations III institutionalised forms of treatment. Impelecement, for example, is a mode of treatment which is composed of many elements which may vary almost infinitely. While the criminal law prescribes the modes of post-conviction treatment and the code of criminal proreduce prescribes many of the modes of pre-conviction treatment, they do so only within the range of administrative flexibility. The trend in lacislation is toward grants of wide discreting to officials with respect to the details of frontment. Moreover, the mathods of treatment actually employed are often decidedly different from those which are authorised. In other cases, there are gaps in the procedural code which have been filled by the customery praction of officials. It is clear that if we are to know what the methods of treatment actually are, we must abserve the behavior of officials.

^{**}To speak of methods of treatment, in in speak of the proctions of effects in the treatment of effects on the process of effects in the treatment of effects of the process of methods of treatment one than parameters regarding the affector of the behavior of officials upon the behavior of actual and parameter of effects upon the behavior of actual and parameter of effects or the parameter of effects of actual and parameter of effects or the treatment of effects of the parameter of effects of effects of the parameter of effects o

Questions concerning the characteristics of methods of treatment call for information regarding the nature and operation is method of treatment considered move or less in isolation. These questions extend to all the elements which compose a method of treatment regarded as an institution. In the case is imprisonent, for example, they call for information cepariting the prison buildings and equipment, the prison functionaries, the number and character of the prison immutus, and such aspects of prison life as discribing, eithe, health, oftention, labor and recreation.

The theoretical sepects of the problem of treatment are thus questions regarding the characteristics and the efficiency of mathods of treatment.

Justice 4. The Problem of Crime Properties.

By preventive measures, as we have said, we seem both official and non-official efforts, other than the administration of the criminal law, for centraling criminal havier. The problem of crims preventies is thus not a problem of criminal justice, although its functionaries, such as the police, may sometimes engage in preventive activities. When congaged in such activities, they are not engaged in sefercing the criminal law; and their efforts to prevent crime do not differ in centre from those of the solal-worker or the tencher or the elegymna or any other agency of crime control.²⁰

The end of preventive measures may be either the elimination or the reduction of criscional helsevies, but they are unually directed toward its reduction rather than its elimination. Whether the elimination of all crime is no end which can ever be achieved is a question to which we shall recur. Efforts to reduce crime may be directed toward a diminution of the tutal volume of erims or the reduction of the volume of specific crimes. In the latter case the limit of reduction is elimination, and the

By the latter term.

The is a certified of crime prevention analogous to the immunolettors of offender not to change the believes potterns of actual or principle.

elimination of a specific crime may be more feasible than the elimination of all crime. Whether we shall make any effort at all to prevent crime and, if no, whether our and shall be the elimination or the reduction of ordine, are practical problems. So, too, in the question what resume we shall employ to control crime. This question obviously has theoretical aspects.

Since the criminal law is the formal cause of crime, the volume of crime can satily be reduced by the simple expedient of modifying the criminal code. The regent of any rule of criminal backets. The wind of behavior which it formerly probibited of its criminal character. The kind of behavior which it described may perdut, but the crime will not. However, it is possible to try to prevent crime by audenvering to change the behavior patterns of actual and potential offenders. Preventive effects of this sort, as we have said, are attempts to control the change of crime either by the eralization of the factors which are believed to incite toward crime or by increasing the resistance of those who are exposed to much factors.

The theoretical aspects of the problem of prevention are questions regarding the characteristics and the afficiency of preventive programs and measures.

Section S. The Administrative Problems of Criminal Justice.

Having spanidered those problems of criminal justice which are problems in criminal behavior, we now turn to those which we shall gail administrative problems. We have said that problems in criminal behavior focus upon the excess and the means ill controlling crime. If the processes of criminal justice are viewed as means to the excess of reformations and observence, they give rise to problems in criminal behavior. But if these processes are, without regard to their influence upon the behavior of actual and potential offundars, viewed in relation to any other and of criminal potential offundars, viewed in relation to any other and of criminal pattice, they give rise to administrative problems. Thus, nethod of treatment give rise to administrative problems when considered, without regard to their returnantive or determent affects, in

exonomy, and as on. Administrative problems thus focus upon all other ends of crimical justice then referention and deterrence.

It is important to repeat in this connection that a means may be considered in relation to different unde; and this is true of the processes of criminal justice. For example, the efficiency of any method of treatment may be monured either by its effects upon the behavior of actual and potential effenders, or in ench terms as its financial cost, security against cacape, and the sonvenience, comfort and welfare of officials and offenders. Moreover, the efficiency of each of the elements in a method of treatment may be similarly measured. Trends in imprisonment such as the classification and segregation of offenders, the individualimition of treatment within the several cleases, the specialization of prisons, the development of prison social life, discontinuous imprisonment and proventive detention, and alements in imprisonment such as the type of prison, its location, the charactaristics of the prison functionaries, the prison diet, the medical mars of primpers, and the character of their discluting, labor, recreation and adacation,—each of these may be considered either in relation to the ends of reformation and deterrence or in relation to such other purposes as they mey have.

Moreover, a means may be highly efficient in relation to one and and extremely inefficient in relation to another. The theoretieal aspects of administrative problems are questions of administrative efficiency, but it counct be too strongly emphasized that these questions are mentiopless until the administrative ends of eriminal justice are clearly and unambiguously defined." These ands are always intermediate and never ultimate ends, which is only to say that the minimistration of the criminal law is itself a means to more remote ands.

The administration of the criminal law can be viewed us a single process." We have charved that the immediate end of

⁶⁰⁽t) is, for exclusive, a seasonable superform to sake if the policy are efficient or the great lawy is efficient or the premaration of oldinaries in efficient, values we are related to policy to what out the questions as almost.
¹¹So vive of the efficiency can be considered in radiation to the obtained as 4 well as intensitient of all pursues who

the administration of the exhainal law in the application of its treatment contant to than who violate its behavior content." From this point of view, the efficiency of criminal justice is to be measured by the artest to which persons who commit crimes are unbjected to treatment. But in order adoquatally to express the immediabe end of criminal justice as it is commonly consisted, it must be stated so the severe, uniform, certain and spendy treatment of criminals. From this point of view, the efficiency of criminal justice is to be measured by the estent to which it results in the severe, uniform, certain and spendy treatment of pursons who commit crimes.

The administration of the criminal lew one also be viewed, and of those which follow, convictive. As we have pointed out, before an alleged extented can be treated as an actual criminal, whether by positive or non-positive methods, his reiminality must lie efficially contributed by the processes of criminal justice; he can be lawfully treated in one of the ways prescribed by the treatment content of the criminal law only after his guilt of the cime with which he is charged has been officially determined, that is, after his conviction. The pre-conviction processes of criminal justice; he are represented that is, after his conviction at the acquisition of the acquisition of the acquisition of the modes by which actual originals are to be treated, and thair treatment according to

Comment cremes, it is efficient to the degree that it ashrows that purpose; if the siltentia and is the protection of marriy by the control of criminal behavior, it be afficured to the degree that it provides comm.

NThis are setted offenders to be paradied, incapacitated and reformed, and thus are potential offenders to be determined.

By converting we many near methods in the last which the second please on pulsy has a last as the result of a last of pulsy. Of course second please on pulsy has a last as the pulsy of a last of pulsy. Of course some cases the accusal may be convented of a lease or different critic from the with which he was originally changed, liet in the first in the pulsy many for the purposes. By secondal we mean any termination of a prosecution other than contriction.

²⁴Of course, trimes may not be detected and, if delected, their parpetrature may not be discovered or presented.

those modes." The post-conviction processes of criminal justice thus end to the douth of the criminal or his succeditional return to society.**

Treatment, in a word, must be preceded by conviction. " The immediate and of the pro-curviction procuses of crimical justies, viewed as a whole, is thus the conviction of all persons who have committed crimen; and their efficiency is to be measured by the extent to which they accomplish that purpose. But those processes have another end, the accruittel of alleged offenders who have not in fact committed the crimes with which they are charged; and they are, therefore, not entirely efficient unless all guilty persons are convicted and unless every innecest person is accultted.30

Just as treatment must be associed by conviction, so conviction must be preceded by the detection of the crimes which are committed, the apprehension of the persons who committed them.

Willy which determination of the method by which a convint is to be treated in made by the radge and re cross-cool on the 'motione' Frequently by will have no ristle department with regard to the made and of treatment to his majetopic. Secundaries other officials, each as parable bounds, may have the power to vary nomenhal the mode of reatment presented by the spid secundaries of vary nomenhal has made in treatment presented by the spid secundaries of the power to vary nomenhal properties of the interminant presented by the spid secundaries of the position of the interminant presents and has considered as and almost in well, of contrast, did in presson. His return is necessary may so the few notation be conditional, as where the properties of the present of of the pr

directorys. "Afternation accounts in conversation in the treal court, his moneticities time be not solder by an appointment order or and for many be empetted order by the appointment of the solder by the appointment of the solder by the appointment of the solder order of the appointment of the solder. Of course, the covered and enhancements by precious, but there is a different entire. The appoint is therefore our of the solder of the solder of the systematic and precious for enternal number; the profess to see the solder of the solder of the systematic and precious for enternal number; the profess to see the solder of the systematic and the systematic and

post-conviction procumes.

When that authorize we lack precise boundings we have excellent removal.

When that we that authorize we have been precise to be a Why, plant are that although we had precise browledge we have employed reasons for believing their some smooting pressure or convoicint (see E. M. Borchard, Convicioning the innecessit. New Haven: Yale Understop Precise, 1932.) and that only a couprising of the proposed some pressure of the convoicing the innecess. New Haven: Yale Understop Precise, 1932.) and that only a comparison of the couprising of the precise of the couprising of the control of the precise which we had desired by society that precise as the problems of crime with which we are now confronted. Apparatus, polytry is willing that elicinals should convicue some electration with respect to the criminal laws that are to be chosen for enforcement. There is a cutritie purador, because in which we willing to which the convicue for minimal behavior (additive, for example, in many tirrifications), but we are out sphing that it ploudd not have public widther that such hadvers deathed as manufally it is consecute to converse the total such hadvers deathed as manufally it is consecuted to converse the teach behavior of control as manufally in a consecute of the convent of the control of the such behavior of control as manufally in a consecute of the control o and their presention. The pre-conviction precesses of eriminal justice than consist of those which are lavolved in the detection of crimes and the apprehension of their perpetrators, and of those which are involved in establishing the guilt or innocence of persons accused of crime. The efficiency of these processes is, of course, to be measured by the extent to which they respectively achieve their proximate ends.

Thus if the preximate ends of the processes of detection and apprehension are the discovery of all crimes and the identification and arrest of all crimbals, and if the proximate ends of the processes of procedules are the conviction of the gallity and the acquittal of the issuesses, their efficiency is to be measured in those terms. But there are other measures of the efficiency of pre-conviction processes, which is to say that they have still other suds. Their efficiency can be measured, for example, in terms of the certainty and cuberity with which crimes are discovered and oriminate are identified arrested and tremembal or

The port-courtetion processes of criminal justice counter shield, at we have said, of the official determination of the modes by which criminals are to be treated after conviction and their treatment according to these modes. The efficiency of these processes, viewed as a whole, can be considered in relation to much sud as a punishment, inexpectation, reformation and determined, but their more impediate and in the application of the treatment contant of the criminal law to convicted and their efficiency in

All The judget, as the here sold, timber that distrumentation to the first industree told substitute it as the sentence. In a particulate cate the many to take up, and have a children a familiar of alternative evolve. He many swytems the creasional to detect, to success for a modery first, take as set. He easy susquard sentence to place the extension properties. He detected to the sentence of the particle, and so one created some problems. He detected to study as substitute, and so one clear to industry which by communication of the sentence or by particle, and so one clear to industry the substitute of the sentence or the sentence or the sentence of the sentence of the sentence or the sentence of the sentenc

[&]quot;The problems involved in measuring the efficiency of per-observation processes in relation to these code do not differ from these strategic in determining the efficiency of cruzinal justice in relation to the measurement, and, therefore, we need not consider them further.

til From this point of view we use not concerned with the results but only with the fact of treatment. Soft other handrade code as pass-conviction processes may have are less well defined, but it is profile to consider during deficiency to relation to

that respect is to be assumed either By the number of convicts who are subjected to post-conviction treatment," or by the proportion of convicts who escape from official custody.

The efficiency of each post-conviction process can be considered. in turn. In cases in which officials have a choice among modes of treatment, the efficiency of the process of determining by what modes particular convicts are to be treated is to be measured. by their probable positive, incasscitating and reformative efficacy when applied to those convicts, according as the purpose of treatment is to punish or to incapacitate or to reform them."

Tan efficiency of the process by which the modes of treatment fixed for particular convicts is applied to them, can be considered. in valation to a number of ends. Here it is important again to amphasing the distinction between a mode and a method of treatment. As we have said, modes of post-conviction treatment are prescribed by the criminal law in very general terms. Within the broad and varue limits of these modes officials are given a wide discretion as to the methods by which they shall be applied." The result is that there may be many methods of applying the

their financial copt, the mental and physical health of countries when they are finally relevant from country, mentals, the value of the products of the labor of countries.

and so on.

45(4) opening, the smoods of strintment applied to sing contract should be that preserfield by tast or, if the laws preventine theremore modes, that solvented by the polyserfield by the or, if the laws prevent to had to the choice. It suching the comparisation,
or other optical having the power to make the choice in such such get the comparisation,
of the contract of the contract

no manner now experience and war now more may us. Not guarary.

"The modes prescribed by the original law use with made more deficile by the character of the physical and other fuelities which her physical intributions, and by the provisions of laws, which we shall enfectively call the administrative ctols. Nevertheless, the fact remains that the functionation of investment have his far for the physical transities and the functionation of invasional laws his the functionation of invasional laws his the functionation of invasional laws his their proper to rathe a given and of treatment quant nature different from the proper to rathe a given and of treatment quant nature different forms as applied to different

same mode of treatment." To speak of the efficiency of the process by which modes of treatment are applied to particular convicts, is therefore to speak of the efficiency of methods of treatment. We have already considered the efficiency of methods of treatment in relation to ends of punishment, incapacitation. reformation and deterrence. Their efficiency may also be considered in relation to various administrative ends such as prison. discipline, the health and education of convicts, the productivity of their labor, and so on.45

It is quite clear that the efficiency of criminal justice, considered as a single process, is a function of the efficiency of each of the processes of which it is compassed. That is also true of any process of criminal justice which is itself made up of a number of processes." It is also evident that the afficiency of every process of criminal fustice to conditioned in part by that of the processes which preceds it.40 Obviously, knowledge of the effidency of criminal fastice is not necessarily knowledge of the efficiency of the various processes of which it is composed.

Moreover, knowledge, however precise, of the extent to which we are achieving our end, is not itself knowledge of the efficiency of any of the means which we are consciously employing for that purpose. We may be achieving one end by some other means of

Wig so far as the functionaries of these main incre a duelos of methods by which a particular mode of reservest one he applied, they absold, of concer, analyze the method not lightly to accompletely the enoughest end of that node of reschants. But it is sometimes very difficult for them to have what the end is; as we have pointed out, protect the absolute was manufacture, each of treatment have been cloudly defined. Moreover, as we have also sounded out, the description of the afficult by when the preference process is executed as besided by the character of the physical when the first in the contraction of the afficult by whom the treatment process is excussed as howeful by the character of the physical stot other inclusions with whose they are you-olded, and by the character of the physical Nevertheless, they do have consultrable absention, at we realise most cliently when we happen to get an Oblovier on Nevelewe, for example, as a greate wateries. When we happen to get an Oblovier on Nevelewe, for example, as a greate wateries. When to the end of referention, they find themselves hampered not not by by the pro-demnantly surject extracted or mer update and the includes with which they are provided but, more important of infl. by the lank of howevledge as to how craminals can be referred to the processes of processing which we the inflicializative ands of treatment and to the measurement of the results of twelvacet. "This at feelow class the processes of prosecutions exclude the prefindancy bar-ing, the induction of accusation, the small and the apost! "The contents causals the thinkful miles creams or discovered, or apprehended, will not recovered.

which we are not swarn.²⁶ Furthermore, if we say that inefficiency is any degree of efficiency less that perfect efficiency,²⁶ to know that any of the more complex processes of criminal justice is inefficient, is not mecassify to know at what points it is inefficient or what factors are responsible for its facilitiency.²⁶ But we must have such knowledge if we would contrive more efficient means for achieving our ends.

The processes of criminal justice are established by a body of laws which, taken together, we shall call the administrative code.10 The administrative code also creates the institutions, such as police departments and parels bounds, the effices of shariff, prosecutors and prison administrators, by which these processes are executed; and provides for their organization, personnel and sunforment. The administrative code also prescribes the duties of officials. However, the provisions of the administrative code are copehed in terms of greater or less generality. Within the limits of the institutionalized forms which official behavior is required to take, officials are left with a considerable discretion as to the manner in which they shall exercise their powers and perform their duties. The result is that the institutions of criminal instice can be presented and administered, the processes of priminal fustion can be executed and the duties of officials can be performed, in different ways. Morneyer, the edministrative code is

While any other he pure that in so the on we enhance the administratures under of oriminal justice, we do so by the second which we employ. These are other no other means by which we could have undervood them. To the content that presentation results it indictanguis, it must be by seeinm of the grand pury.

Office a specificate of charge, whether we cam ever hape to affiliate or whether one dustry to atthic perfect afficiency in the administrations of cranical limited. If we are trying for, or are additional with according loss than perfect efficiency, our means are hatfiched only if they are less afficient than we wish stress to be.

Of Although we have that prosecution vousits in the coveration of only a small proportion of all persons who commet erases, we saw not know whather or to what setted its betficiency in to be attributed to the processes of detection and approximation or to the processes of processes.

stors or to the processor of processors.

Whe submaintanes due to be to the distinguished from the observative criminal law. It consists, first, of the laws by related what may be called the machinery of criminal justice to entitled with the criminal parties to entitled with the processors, the approximation, processors, the processor of the pr

neither a complete not of rules for the regulation of the processes of criminal justice nor a complete set of instructions for the ofcials charged with the enforcement of the criminal law. The gaps in the administrative code have been filled by forms of official behavior which have developed in the castemary practices of officials. Some of these practices are inwful although not prescribed by the administrative code,²⁰ others are unlawfal. ²⁴

Thus, while the administrative code prescribes, it does not describe, either the processes or the institutions of criminal justice as they exist is fact. As the result of the generality and incompleteness of the administrative code and of differences in the aeganisation, personnel and equipment of the institutions by which the processes of criminal justice are executed, varieties 52 these processes are to be discovered in different jurisdictions and even in the same jurisdiction at different institutions of even in the same jurisdiction at different institutions of even in the same jurisdiction at different fines and places. If we would know what are the characteristics of the institutions of criminal jurifies or how the criminal law is administrative, we must go beyond the administrative code and seak empirical knowledge. We must observe these institutions as they are, and the criminal law in action.

We are interested in knowing what the processes and institutions of crimical justice are in fact, because without such knowledge we cannot account for the inefficiency of criminal justice. The processes of criminal justice are the means by which we seek to attain the ends of criminal justice. The problem of increasing the efficiency of the administration of the criminal law is, therefore, the problem of the better adaptation of those processes to their ands. But in order to increase their efficiency, we must know the causes of their inselficiency. We must work these causes in the nature of existing processes, the character of the organization, persuncel and extraorder of the institutions by which they are ad-

MS, fact, for example, as the practices of the galler on criminal, investigations, of Propertors in the prequestion of their cases for treat, and of price overflows in the exists of the property of the property of the property of place of gally to loss service of image than these changes; much or developing the preceding of the parts of the bibarrer constant of the command have which they will endowed to conforce.

culores. **Nock, for enamels, as system forms of the trivil degree, memorable searches and selectes, and executes half.

ministered, and in these factors in the environments in which these institutions etial, which may influence the manner in which they function, such as sucial attitudes and the pressure of political and criminal organizations.

It is clear that the major theoretical problems growing out of the administration of the criminal law are questions as to the contest of the administrative costs, as to the clearacteristics of the institutions of criminal justice and of the social milious in which they exist, and as to the characteristics and efficiency of the processes of criminal justice.

Section 6. The Problems of the Criminal Law.

All of the problems which we have been discussing have their roots, as we have east, in the criminal law, and many of them may be said to be problems of the criminal law.

The theoretical problems of the criminal law are of two sorts. They consist, in the first place, of such questions as what should be the ultimate and of the criminal law, what behavior should be made criminal, how criminals should be treated. They consist, in the second place, of such questions as what have been and what are the ultimate ends of the criminal law, what behavior has been and is made criminal, how criminals have been treated and how they are treated. The first group of questions is answered in terms of an examination of the criminal law in the light of the rational sciences of either and politics. The escond group of questions is answered by a study of the criminal law itself. This study may take the form either of a history of the crimical law, or of a comparative analysis of the criminal codes of various countries, or of a science of the subject matter of the criminal law. A science of the criminal law would, of concee, he a rational and not an empirical science. We shall uninequently distinguish between rational and empirical sciences; it is here sufficient to point out that the law, of which the eriminal law is only one branch, is the kind of subject matter which is capable of rational study. Whereas theoretical questions about the administration of the criminal law can be answered in terms of empirical knowledge, theoretical questions about the nature and content of the eximinal law must be answered by retional knowledge.

The practical problems of the criminal law are the problems which its various practitions must solve, the problems of the legislator, the judge and the lawyer. As we shall see, a rational solution ill these practical problems depends upon knowledge which answers the absorational questions above commercial. We shall be primarily concentrated with the legislator's problems, such as what behavior shall be made criminal and how criminals shall be treated; and accordarily with the questions which the judge must answer in order to decide particular case.

PART TWO CRIMINOLOGY

Chapter IV

THE CONDITIONS OF A SCIENCE OF CRIMINOLOGY

Section 1. An Evaluation of the Results of Criminological Research.

In order to walmate the results of criminological research, it is necessary to indicate the boundaries of the field of inquiry which we shall treat an criminalogy. Criminology can be said to be the study of the phenomens of crime and of related phenomens. Each a sittement, however, is too infesfinitely broad; it can be made to include much or little, according as different criteria are employed for judging the relatedness of various phenomens to crime. We shall therefore find it more neeful to define oriminology by mederating a better semanary of the kinds of knowledge to be found in the litterature of criminology.

(1) Criminologists have given as knowledge of criminal activities and organisations. This knowledge has taken the form of auritive sorpors of the strivities of Individuals or groups of individuals. In its marrative form ill resembles the kind of knowledge to be found in blographies. It is important to note here that this knowledge is never quantitative. Marrative reports of the activities ill various imbividual criminals as criminal groups can be roughled only in the vesse that they can be summarised. Such a summary with, for example, describe the characteristics of gauge, the ways in which they are formed, and the character of that activities.

(2) Criminologius have given as knowledge of the characterists of individual criminuls. This knowledge has taken one of two forms. If is either non-opanitistive or quantitative. In its

non-quantitative form, it condets in the report of individual case histories and in the summary of them by some type of diagnostic characterisation. Non-quantitative studies of criminal natures are distinguishable from non-quantitulive negrative accounts of the activities of criminals only in so for an they result in attempts to classify criminals with respect to one or more characteristics. which they are somehow found to possess. It its quantitative form, this knowledge tells as how many criminals of given groups potters a certain trait, or the degree to which a given trait is found to be present in some manaling of the criminal population. The trait in question may be such that its presence or absence can be noted, and the number of inclusions in which it is present counted. On the other hand, the trait may be such that the dagree to which it is present one be measured. Ill both cases this kind of knowledge gives us a quantitatively expressed description either of some individual oriminal or of some definite aggregate of criminals.

(8) Oriminologists have given us knowledge of the anvironments from which criminals come. This knowledge is also either non-quantitative or quantitative in form. In its non-quantitative form, it consists to the cheracterization of the environmental buckgrounds of criminals. The materials for such studies are found in the case histories of individuals, just as materials for the nonquantitative description and classification of criminals are found In their case histories. Different types of environmental background can be classified according as they possess different traits or are constituted by different elements. In its quantitutive form, this knowledge either states the number of criminals who are found to have a certain environmental background or measures the degree to which a certain type of environmental background is a common element in the biographies of a group of criminals. Just as in the case of the quantitative study of criminal characteristies, criminal savirouments can ill counted according as they possess or do not possess a certain trait, or the degree to which a cartain truit & found to be present in an environment can be measured. In both came this knowledge gives as quantitative deacriptions of the environments of criminals.

(4) Criminologists have given as knowledge of the ways in which criminals are treated, of the procedures by which they are apprehended, detained, prospected, tried and treated subsequent. to conviction. Knowledge of the treatment of a criminal is of course knowledge of the crimbal's environment. This knowledge is also found in non-quantitative and quantitative forms. In its non-quantitative form, it commists in a description of the various institutions and precedures which constitute both the official and the non-official techniques and devices of society for coping with the phenomena of crime. These institutions and procedures can be classified by reference to the characteristics which they are found to possess. In its quantitative form, this knowledge gives althor the number of institutions or procedures of various types or the number of individuals who are treated by, or in some way come into contact with, these institutions or procedures, or it measures the degree to which a given testitution or a given procedure possesses a certain trait. This quantitative study of metheds of both pre-canviction and post-conviction treatment, and of both official and non-official treatment, is a special case of the quantitative study of the environmental background of criminals.

We shall report the content of much of this knowledge in great detail in three subsequent chapters. For the present we are interested in evaluating the field of knowledge which we have just summarized.

For convenience we shall arbitrarily call this body of knowledge 'criminology'.

In the light of the foregoing discussion, if can be said that eriminalogy consists of information about the activities and actures of criminals, their environments, and the ways in which they are officially and modificially treated by social agents and agencies. In any case the information is either quantitative or non-quantitative. A body of knowledge as knowledge is evaluated with respect to its validity and to its significance. We shall consider the quantitative or validity and intendicance severately.

[&]quot;By validity we mean accuracy and reliability. By significants we man managibility to grammatic interpretation; we do not man important."

It is difficult to estimate the validity of non-quantitative information. Its accuracy and reliability can be estimated, but only crudely, by reference to the intellectual competence and verently of the reporter or by reference to his decuments and other material. The problem of estimating the validity of narrative accounts of criminal activity in like the problem of astimating the validity of any historical astractive. The reliability of descriptions and characterizations of criminals or their environments or treatment is similarly difficult to estimate, particularly if different reports disagree about matters with which they preport II be commonly concerned. The difficulty is increased in those cases in which the characterization of an individual is based upon some scheme of diagnosts, perticularly if there is obvious disagreement among diagnosts, perticularly if there is obvious disagreement among diagnosts, perticularly if there is obvious disagreement

The validity of quantitatively expressed information is more easily tested. Ideally II should be possible to repeat the observations or the measurements and in this way to check the reliability of any numerical estatement. When for one reason to unother this kind of check is not possible, it is ill least possible critically to examine the method of the research and its statistical technique, and in this way to estimate the validity of the findings, although less precisely.

We shall in autosognant chapters undertake a critical examination of criminalogical researches with a view to estimating their validity. Suffice at to say bers, first, that the validity of nonquantitative information is so isolation as to reader it nativalworthy for either scientific or practical purposes, and, second, that the validity of quantitative information varies from an 42transe of clear invalidity to an extreme of valid knowledge, sufficiently accurate and reliable for either scientific or practical use.

The significance of a body of knowledge varies independently of its validity. We can therefore means that the knowledge we

First degree of reliability and assumery required in test despite. It is always relative to the networ of the periodical beauty-paiding, as profilement and methods. There are very of determining the conflictent of avoidable curve test the standards of pre-tation and agriculturally by which to playle the unidelity of the date. In a given piece of research. We sport not be uniformed as negling first enternative rely information in tension for protection] prepares. It may be such that the uniformal standards or protection proposes. It may be such that the uniform them the right.

are considering in valid, and ask what is its significance. The significance of a body of knowledge can be meet clearly seen in terms of the questions which it can be meet to answer, and the significance of those questions in terms of other theoretical or practical problems to which they are related.

The information which eriminological research has given us can, of course, he considered as saving been obtained for its own carbo. Thus considered, its aiguiffrance is revealed by the following quantions:

- What are the various ways in which individuals perpetrate crimes?
- What are the characteristics of the criminals who have been observed?
- 3. From what kinds of environments do these crimicals come?
- What are the various ways is which society, afficially and nnoficially, treats individuals suspected or convicted of crime?

Whatever its validity, the significance of the knowledge resulting from criminological research is, at least, its capacity to answer these four questions. One can then sale what is the significance of these questions? The answer must be given in terms either of further questions to be assessed or of practical problems to be solved.

The further questions in which the criminologist is admittedly interacted, and for the sake of which much of this information has been gathered, are questions about the excess of criminal behavior. Questions of this sort constitute a problem of etiology. The further significance of the knewledge gained by criminological research can therefore be determined by examining this knowledge for its ability to solve the etiological problem. The solution is necessarily prerequisits to any attempt to prevent or control the phenomena of crime. It is important to see that one exhaut pass

*By strongly to proved and control crass we man undersiding etemporable to engineering. Technology is the field of storid physical and topo strategy in the field of storid physical and hybrided and bladegard, thereasm. It is not course ventrated that attempts to prevent and complete crass to easily it the phasma of an attempts beyond the op-more than strate and see easily it the phasma of an attempt, but they can be up more than strate and see equipme.

directly from knowledge which merely answers the first four questions, but fails to solve the stickerical problem, to a solution of the basic practical problem of crime. The practical significance of criminological research therefore turns upon its significance II relation to the ethioxical problem. We must therefore formulata this problem.

We have distinguished in an earlier chapter between potential and actual criminals. All the members of a given society are at any time either potential or actual estatuals. In terms of this distinction we can ask: (1) Why do some potential criminals become actual eriminals? (S) Why do not all potential criminals become actual originals? These two phrasumes of the same question call attention to factors which operate either positively or nagatively with respect to the occurrence of criminal behavior. Stated more generally, the ecislogical question is what are the factors relevant to the occurrence of criminal behavior.

But this formulation is not sufficiently assistical to indicate the precise nature of the problem of causation or to indicate the kind of knowledge which is required in order to solve this problam. The word 'camee' has had many measures in the long history of its name by philosophers and scientists.4 It has become a word of common speech and its common soage is a confused and debased vulgariestion of its philosophical connetations.

It is important here to determine the precise meaning of the word 'cause' as used by empirical ecientists. We are not asking what the word 'exame' really means. We are simply concerned to know what an empirical extendist means when he formulates a causal problem. The way in which he formulates a causal probless gives us his meaning. When he is seaking causes, the umpirical actentiat is seeking in find the precise mature of the relation of dependence which obtains between a given liters on the one hand

[&]quot;In his analysis of cassation Acustofts comittees 'came' on one of the fundamental notallysical correctly, but the submany their developed must be detempted forton by no extraord or large or the numbersal arrange." Thus, the outse in which the same what Araticle detempes are the efficient, plan Synath with the second of the efficient, plan Synath with the second of the efficient, plan Synath with the second of the efficient classes which the second of the efficient states when the second of the efficient states the second of the efficient states when the second of the efficient states when the second of the efficient states are such as the second of

and one or more items so the other band. Intendependant items vary with one another, and are called variables. Strictly speaking, thay are co-variables; and the inquity is always one into the practice nature of their co-variation. The distinction between came and effect is made in terms of independent and dependant variables. Perry independent variable may, of course, be in turn a dependent variable, and what is a dependent variable in one connection may be an independent variable in sucher. A proposition which formulates some type of co-variation among variables in a general proposition, and may be citizen a correlation or a function.

We can formulate etiological questions clearly and explicitly only when we can propose definite correlations or functions as problems to be investigated. When our analysis or our knowledge of a given field if such that we possess selfer a definite set of variables nor any teastative formulations of co-variation, the only questions which we can frame are these which indicate that we have an interest in etiology. That iff the elimitation is the field of oriminology. The quantitative and see-quantitative descriptions which constitute the information resulting teres criminological research suggest a large field of factors which may or may not be relevant variation in the etiology of crime. But the lack of an analysis of this group of factors and the character of the information we have about them, make it impossible to formulate specific etiological questions. We can do no more than state the following problems:

 What is estiminality a function of? Crimicality in here viewed as a dependent variable, and this question may take the form: In criminality a function of x? Is criminality

^{6 (}a. consesse chape, a "tanne" in situage imagerally grize to its 'effect'; but 'ensest' and 'effect' as on-worshin ore our related in sumposity prior and postures. In mechanic the form casses' so often such in the quantum state contraction as temporal anteresters, but their brings can always be reflect by the forumistion of the dependence of variables.

By a correlation we do not menu a sinhalizal coefficient of correlation, which is a measure of correlation. By a furction we do not measure an equation, which is early a special case of a function.

- a function of some relation of x and y? Is criminality a function of some relation of x, y and x?
- 2. What is any type of criminality a function of?
- What is non-criminality a function of?
- 4. What to any type of non-criminality a function of?

Each of these last three questions can be analyzed in the same way as the first one. They differ from the sirst only with respect to what is chosen as the dependent variable. As in the case of the first question, we cannot at present attempt a more yracise formulation of these sticlorical problems.

The major practical problems of crime are concerned with the deterrance of potential criminals and the reformation of actual criminals. These problems are special cases of the problem of controlling triminal behavior. Deterrence can be conceived in terms of the influence of the efficial treatment of actual criminals upon potential criminals; prevention can all conorded in terms of all of the various non-official influences and official infinences. other than the treatment of actual offenders, which can be brought to bear on popultial erisainals to deter them from becoming actual criminals. The practical problems of deterrence, reformation and prevention require for their solution knowledge which answers sticlogical questions of the types indicated above. The question of the reformative effects of different methods of treatment is an eticlorical quarties in which one or another method of treatment is an independent variable, and recidivism in the dependent variahie. The question of the delerment effects of one or another method of treatment is an effological question in which the dependent Variable is criminality or some type of criminality, and a method of treatment is one of the independent variables.

It should be clearly seen us the result of the foregoing analysis of the manner in which empirical scientists furnished questions

We can propose as many questions of this sort on we can think of specific variables to substitute for x, for y and for z. To amount may of times questions we are required to state the third of temporal dependents which allows between cross and the independent variables and what hands of relation stress among the subspecific variables.

of cticlogy that we are not concerned here with the 'real causes' of crime, whatever the phrase may meen. Empirical actence is not fitted to undertake impulsy with respect to ultimates. The analysis which is employed in ampirical actence sever goes beyond the contraction of a set of variables. Empirical knowledge of the relations which obtain in a given set of variables.

We are now prepared to evaluate the uncluless of existing knowledge in crischeslogy in solving caused problems. It should be remembered that we see, for the time being, assuming that it is valid knowledge. If it is not valid it must not be used, area though it is namble, in attempts to solve caused problems.

In the first place, it is clear that the non-quantitative knowladge, the descriptions, perretires and characterisations which oriminologists have recorded, has no etiological significance. It does not provide evidence relevant to formulae of co-variation. Etiological propositions need not be quantitative: the interdependance of the co-variables may not be a matter of dagree, but rather an all-or-sees type of relation. But whether or not etialacical propositione express continuous or discrete functions. whether or not dependence is partial or complete, descriptive knowledge must consist of observations of instances III precisely defined variables in order to possess etiological significance. The only value of the non-constitutive information which has been collected is its possible suggestiveness, by which we make its power to reveal factors which may or may not, upon examination, be capable of sufficiently procise definition to be employed as variables.

If the second place, the quantitative knowindge lacks etiological significance because, as absorped discussion will reveal the researches yielding this knowindge have not been directed by problems formulated in terms of the co-variation III variables. The quantitative findings at best measure the correlation of one or more factors with eximinality, or recidivism, or more type of criminality. But these indices of correlation, often expressed by

the comparison of averages or percentages," matcher solve the problem of the relation of the purious factors inter as nor define the functional dependence of criminality upon a net of related factors. There is a further reason for the insignificance of the statistical products derived from these quantitative data. Almost all of the statistical fladings, whether averages, percentages or coefficients of correlation, are mergin statistical descriptions.

By a statistical description we mean a number which is achieved as a result of the application of statistical processes to quantitative data, but which is significant only with respect to the data in question. A statistical description is always a description of some sampling of a suiverse, and never gone beyond that sampling. A statistical conclusion or inference, in contrast, is always a statement about the universe from which the sampling has been taken. Any contribution to the solution of the problem. By the sampling of the statement about the universe from which the sampling has been taken. Any contribution to the solution of the problem. By the sampling has been taken. Any contribution to the solution of the problem that the sampling has been taken. Any contribution to the scale of the problem of the sampling that the sampling has been taken. Any contribution to the solution of the problem of the sampling that the sampling has been taken as the sampling that the s

There is still another way of saying that none of the statistical inings derived from the quantitative data yields answers to etiological quantitor. The findings themselves show that every factor which can be seen to be in some way associated with eriminality is also associated with non-criminality, and also that orbining is found in the absence of every factor with which it is also not to be associated. In other words, what less been found is merely additional evidence of what we either have or could have unpected, namely, that there is a plurality of related factors in this field, and that the solution of citiningical questions depends upon our ability to isolate and control a plurality of variables. At any text, these patitifical findings themselves clarity event their own.

First, criminologists have used their quelcidetor feelings to state that such as percentage of a griege of ordermals persons a contain trait, or contain degree of a trait, et. Feet the most post, only order survings or provings are used to of a trait, et. Feet the most post, only order survings or provings are used to thought or tetrachers of a least best employed. In the tires unknowned chapters in which we report and cannot survey as most of the quantities research which contains the chapter of the contains the state of the contains the contains the state of the contains the contai

inadequacy to answer the citalogical question. Their inconclusiveness, and hence their insignificance as anything except descriptive knowledge, in plats.

We can conclude this section by a brief summary of the main points in our evaluation of the results of criminalsgical research:

- The significance of knowledge in this field is purely informational. It cannot answer chological questions.
- Most of the work has not been directed toward apprecing such questions. It has resulted either in non-quantitative deamptions and narvetiess which are medal only in a vague, suggettive way, or II statistical descriptions.
- 3. Not only has this body of information no etislogical rignificance, but it is major practical problems of erime, since the control of crime depends upon knowledge of its causes.

If we use 'scientific heavisings' arbitrarily to refer to knowledge which goes beyond mere description, we can conclude our analysis that far with the statement that the work of criminologists has not resulted in eclentific knowledge of the phenomena in crime. We shall therefore attempt to discover why criminological research has failed to accomplish that which is of primary practical importance. It cannot be because criminologists are not interested in the ensure of crime, but rather because they have been frustrated for one research or another in thair attempts to answer stiological questions. In the two following sections of this chapter we shall analyse what we think to be the two bufer rushous for the failure of criminology to become a schoot. The first is the imadequate conception or the misroscoption of the nature of science and scientific method which has prevailed among brushquety is this field. The second in the dependence of scientific

We have already printed out that in the almost of an atology, trial and error ethenpis to control order on he main. But unless such efforts are functed as experiments whereby to got forters lare function and experiments whereby to got forters lare function of the control order of the control order of the control order of the control o

work in criminalogy upon the development of psychology and the social sciences as empirical sciences. In the course of the discusgion of these two points, superis of the foregoing analysis which have been touched only lightly will be treated in greater detail, particularly the nature of science and scientific method.

Section 2. The Requirements of Scientific Work in Criminology.

The failure of researches in criminology to achieve knowledge with affords significant answers to questions of chickey can be considered as a failure coly if the aim of cristantogical research has been to achieve knowledge of the causes of crima. There can be no question that this aim has dominated akmost all oriminological resetting achieves much of the work, which is merely applicatory and is content with recording more or less valid observations, pays no more than He service to this around aim. Even the best work is inadequately consciented and excented from the point of view of ctiology. In order to solve the problem of causes, criminologies abould have undertaken to construct a science of the phenomena of crime.

To understand this eviticism of criminological research it is necessary to state briefly the essential distinction between acteutific knowledge and other hinds of knowledge. We are here occurred, of course, archestedly with the type of knowledge which can be obtained by the methods of empirical science. By scientific knowledge we therefore mean empirical scientific knowledge. We shall first consider the waters of an item of scientific knowledge and then proceed to the characteristics of a science, as that which is composed in a certain way of items of knowledge of this sure.

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What we have called information or descriptive knowledge, whether non-grantitutive or quantitative, whether II consists of narratives or characterisations, always has a timited reference to particular things or events or to definite appropries of particular things or events. It is the kind of knowledge out of which histories and hiperaphies are constructed. It is also indimousable in the development of a spinner, but he itself it is not sufficient. A proposition of scientific knowledge, in contrast to propositions of descriptive knowledge, never has a restricted reference to narticular things or definite aggregates of particular things. A solentific proposition is always a greated proposition. It slways states more than one ever be observed; it is a generalisation which goes beyond the evidence which has been or can be gathered. While it goes beyond the evidence, it must always rest upon definite evidence in a definite way. Both of these traits are essential to the nature of a ectentific proposition: first, that it have renerality in the sense of going beyond the evidence, and second. that it have a determinate validity" in the sense that it rests in a definite way upon the evidence.

It can now be seen that a proposition expressing a statistical inference has some of the traits of a scientific proportion, whereas a proposition expressing a statistical description has not. This can be illustrated simply as follows: Suppose one were to take a campling of the criminal population and measure the intelligence

Probability, Aristotic, The Organics Different points in our brief exposition are thingstopy discussed in one or another of the foregoing treatmen. While these wirels either on many details were no, view represents a common analysis in the must, this essential truth of exemptic honoviedge and wontaids; mutiged are not matters of dispute essectial trade of according homology and wonder method are not matters of disprice or opinion. It is supported to recognize the We are not offering here ore opinioned above the nature of sciences; the nature of science as our a stabilish bear ore opinioned. The radies was small dispute with any flories advanced in the new opinioned. The radies was small disprice with any flories advanced in the other 'opinioned' which the prefers to badd it; said is noted that we have contrade reference to J. S. Mall's discussion of sciences are not contraded to the contraded of the contraded

of the Individuals in that sampling. The proposition which states the quantity of intelligence possessed by each individual ill that sampling is, of course, a descriptive proposition. But in the same way the proposition which states the average intelligence of the group is a descriptive proposition of the tied which we have already called a statistical description. The sampling which we have have chosen is some definite group of particular individuals. The number which states the average intelligence of that group is of the sampling which we have chosen is some definite group of particular individuals. The numbers which express the measure of intelligence of each individual in the group by resums of the fact that it is obtained by a process of calculation from numbers which have been obtained by a process of calculation from numbers which have been obtained by a process of observation and measurement. The average, taken without further qualifications, must be restricted in its preference to the group which has been encaured.

Now suppose that the sampling of the criminal population which we have shoom entisties the logical requirements of fairness, homogeneity and ease; let us further suppose that the individual measures of intelligence are reliable and accurate as measurements, and that intelligence appears to have a normal distributton. Further statistical techniques can now be used to make the generalisation which is called a statistical informers. This generalization will state, not what the average intelligence of a particular aggregate of criminals is, but an approximation of the true average at intelligence of the criminal population from which they come. This generalisation exhibits two traits prosessed by any eclentific proposition. It goes beyond empirical evidence obtained by observation and measurement; its validity can be determined by reference to that evidence. But the proposition expressing a statistical inference is not a scientific proposition. It lacks one other truit, namely, it does not express a relation of variables.

A variable is any form which does not refer to particular things, that is, individuals or definite aggregates of individuals. Words which refer to cleams, ar which are names for universal characteristics whether they be viewed as qualities or quantities, are variable symbols. In this sense a definition is a scientific proposition gince none of the terms in a definition refer to individual things; they are all variables, and the definition formulates the relation which obtains among them. Similarly algebraic equations and functions" are scientific propositions when meanings are assisted their constituent symbols by reference to the defined terms of a science. There are many different types of scientific propositions but they all possess, as essential to thely nature, the three traits which have thus far been pointed ont. namely. (1) generality in the sense of going beyond the evidence. (9) determinate validity in the seem of routing upon definite evidence, and (3) the formal character of the general proposition as a relation of variables. Scientific propositions differ in type according to the type of 'correlator' employed.16 These traits are no clear and unumbiguous that it is impossible to confuse a scientific proposition with one which reports information or descriptive knowledge. Our subsequent servey of criminological resourches will substantiate the statement that the body of knowledge called criminology does not contain a single scientific proposition; at its best it has achieved indices of correlation which are statistical descriptions of doubtful validity.

It is important for our purposes to distinguish scientific knowledge, not only from descriptive knowledge, but from two other kinds of knowledge as well. The literature of criminology does contain general propositions, in addition to descriptions. These general propositions, however, are not actestific propositions for

^{39.} A function can be defined as follows: If then or more variables are so related that to say given said of softens, extendingly one pad best one value for such of the variables of the variables and of the variables are not to be not one on the variable of the decirated function of the variables of the decirated functions used the a 44 Yala Law Journal, 726.

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two reasons. In the first place, they do not rest upon definite avidence by reference to which their validity can be determined. In the second place, they are issimate generalizations, whereas we shall see that a fourth characteristic of a scientific proposition is that it is a member of a set of propositions. We shall return to this fourth trait later.

The non-scientific generalizations to be found in the literature of oriminology are of two sorts. They are citizen generalisations based noon common experience or generalisations based upon individual experience. For purposes of discussion we shall call the former 'common sense reperalizations', and the latter 'oninions', realizing that we are using these words somewhat arbitrurily. The difference between common sense generalisations and opinions is that the former are generally recognised as having a high probability because of the common experience upon which they are based, whereas the latter are not no recognized. The line dividing opinions from common sense generalizations is a vegue one. It might be difficult to classify some of the general proporitions to Be found in the literature of criminology under one or the other head, but the line between common sense generallasticus and opinione, on the one hand, and scientific propositions, on the other, is a precise and sharp one. There is no difficulty at all in seeing that the general propositions to be found in the literature of criminelogy are either epinions or common sense generalizations, but not scientific propositions.

Let us now term to the fearth trait of scientific propositions, A trait possessed by them but not by opinions and common sense generalisations. A scientific proposition is always a proposition in a science said a science never consists of a single proposition; A scientific proposition is one of a set of propositions. It stands in certain definite relations to other members of this set. The terms of scientific propositions are variables. A set of scientific propositions, to be a set, sayst coming of propositions which have common variables; that is, such proposition in the set must contain at least one variables which is to be found in once other proposition in the set. This trait of a scientific proposition, that

it belongs to a set of propositions, is called its compendancy. More properly speaking, it is the set of propositions which ill compendent, but any proposition in the set way he seld to be compendent with the others. Opinions and common mansa generalizations are never found organised in compendent onto of propositions. They are always either isolated generalizations or members of indefinite agreements of generalizations.

The foregoing discession of the tredts of a actestific proposition enables us new to state very simply the characteristics of a actenoe and to distinguish an empirical actenoe from a rational science. This distinction in important because (1) it belps to make plain the nature of empirical ocience, and (3) it is necessary to distinguish estiminationly from the study of criminal law which, as a science, would be a rational subsection on mytrical science.

A science must always have a woject matter and this subject matter must always be capable of differentiation from the subject matters of other sciences. The unity of the subject matter of a acience is appressed by the composition of the terms or variables. The differentiation of one existed from another is socomplished by our shillify to distinguish clearly between ests of compendent terms or variables. A science will be dependent upon or independent of other sciences, according as they have or do not have common terms. In the following section of this chapter we shall consider whether criminology would as a science be a dependent or an indurenced science.

A science can be viewed either with respect to the relation of its terms or the relations of its constituent propositions. What we are here calling the insues or variables to be found in the propositions of a science are after called the concepts of that ectemes. A concept is nesting soore tissue avariable. The relation of the concepts of a science is a structure which is exhibited in the propositions of that science. When the propositions of a science are considered solely with reference to the conceptual structure which they exhibit, they can be said to constitute a theory or an enables. These two words can be used interchange-

ably. A theory is a set of compendent propositions which, by aphibiting the conceptual structure of a science, presents an analysis of the subject matter of that science. If any field of investigation the absence of a set of compendent general propositions must, therefore, mean the absence, not only of a science, but of a theory or as analysis of that subject matter. There is no theory or analysis to be found in the literature of criminology.

A set of general propositions may be not only compendent but systematic. A got of propositions forms a system when they are ordered in a certain way with respect to one another. If the validity of some of the propositions in the set can be seen to rest upon the validity of others, and if the validity of all the propositions in the set can be seen to seet upon the validity of a small number of propositions estaids of the set, the propositions are systematically ordered. When they are thus ordered they are said Ill constitute a entional scheece. The propositions which lie outside the given set, and upon which the validity of the propositions in the set can III seen to desceed, can be called the rational base of the set of propositions. This rational base is itself a set of general propositions consisting of what are commonly called definitions, axioms and postuintes. A rational science is therefore one in which the propositions of the base can be used to demonstrate the propositions of the dependent set which are called theorems. The various geometries, theelogy, and what is called rational mechanics, are examples of rational sciences of Independont subject matters.

An empirical science of any subject matter can be distinguished from a relieved science by the fact that the validity of its constituent propositions rests upon an empirical, as opposed to a rational, base. It is an the result of this fact that the propositions of empirical science are emerally compendent; they are not writematic. Each of the theorems of one empirical science has a validity which is determined by reference to empirical evidence resulting from observation and measurement. It ceases to be a theorem of empirical science when its validity can be determined by reference to other general propositions in that science and

without regard to ampliciant ovidence. It about the noted that we have called the propositions of an empirical science theorems but an we called the demonstrated propositions of a retional acteue, theorem; they are theorems in the sense, first, that they are propositions in a theory by virtue of their trait of compendency; and, account, that they are propositions whose validity is determined by a process of proof.

The difference between the theorems of an empirical science and those of a rathonal science can be stated in terms of the distinction between induction and desiration. A general proposition in said to be deductively proved whose its validity in established in terms of other general propositions and only in terms of other general propositions and said to be inductively proved when his validity is established in terms of descriptive propositions as used to be inductively proved when his validity is established in terms of descriptive propositions as seed see of general propositions. Inductive proof slways involves sense general propositions but neary only meral propositions. Descriptive propositions which are employed in inductive proof report ear knowledge of the empirical evidence relayent to the senseral proposition which in the theorem.

There is one further distinction to be made between the propositions of an ampirical and those of a rational actance. We have until that ampirical sciencific properties always go beyond the avidance. This trait expresses itself in the fact that industry proof of an empirical actesifile proposition never results in the stablishment of the general proposition as sewer than probable. The validity of an empirical scientific proposition is therefore always some degree of probability. By deductive great, on the other hand, the propositions of a rational estone use established as true, and never as probable. Whenever a general proposition can be established as true it causes to be a proposition of amorical acteries.

Whereas the difference between the nature of an empirical actions and the nature of a rational science in perfectly clear, a given science may emblid; some of the traits of empirical science and some of the tentisp of rational actions. At some stage E its development, definitions and postulation may be made and some of its theorems may be deductively established themefrom, whereas other theorems may still rest upon an empirical base. In other words, sciences can be found in all degrees of organization, runging from the purely suspicion acience to the purely rational acience. If Furthermore, it is possible to have footh an empirical and a rational acience of the same subject matter. In some cases, the same propositions may occur on theorems in both an empirical and a rational science. The hest canual science are the deductively satisfiabled theorems of a rational science, and in another connection are revewed as propositions in physical geometry, such most of science are the deductively satisfiabled theorems of a rational science, and in another connection are revewed as propositions in physical sciencity, such most connection are revewed as propositions in physical science, rating approximate. As propositions of empirical actance, rating apm as amprical hase, they are subshished as probable revocations.

Having countdered the nature of empirical primer, we now turn to a considered the method is both too complex and too various in its manifestations to be adequately described in this book, but it is possible to state the minimum requirements which such he estimited by investigations which such activated throwledge. The failure of criminological researches if this respect will be seen in part to depend upon the failure of the investigations in this failure of the investigations in this fail to estimy chose minimum requirements. It will be apparent that the minimum requirements we are about to state follow directly from the traits of an empirical science and of the constituent propositions.

The distinguishing finature of an empirical actace is, as we have seen, the caspirical base upon which it rests. This empirical base consists of descriptive propositions of one type or another which record the oridence obtained by observation and measurement. The first requirement to be sminded by research which becks estentific knowledge is, therefore, that it shall employ techniques of observation and measurement designed to obtain data is terms of which a general proposition can be inductively established as possessing a signific segrees of probability. This restrictions

 $^{^{14}{\}rm For}$ a tabler denomina of them production, as C J. Kayers, Thinking About Thinking and B D. Carmichael, The Loyer of Discovery.

ment is a complicated one; it involves criteria of relavancy; it involves the introceion of inductive proof and the subtleties of a calculus of probabilities. These matters ensure to gove into here. It must suffice for our present purpose to amphasine one aspect of this first requirement, manely, that what is properly scientific research cannot be excessed in the absence of a general proposition to be proved inductively. It is to be noted that we are not adag finduction, here as the name for a process of discovery, but rather as the name for a process of proof.

This first requirement can be summarised vary slupply. Scientific research must be directed by a problem; a problem is always formulated in terms of a proposition is question and this proposition is expensively called a problematic preposition. All the theorems of an ampirical extence are problematic propositions in the sense that they have been or are to be submitted to the test of empirical evidence. Since extentior research cannot ill accomplished in the absence of a problem, and a problem cannot ill formulated axcept in terms of problematic propositions, and since a problematic proposition is always a theorem and, as such, a constituent proposition in a theory or analysis, it follows that sufputible research in any field cannot be accomplished in the absence of a theory or analysis of the sublect matter of that field.

It is necessary to distinguish between exploratory and directed research. What we have called scientific research in always directed. Exploratory research may be a ecossesty preliminary to acientific research. Exploratory investigations can, of course, result only in descriptive knowledge, either quantitative or normalizative. The word-shapes of exploratory work as a preliminary to acientific work depends, of course, upon the suggestiveness of the descriptive knowledge which it achieves. The word induction is often used to mean the psychological act by which we generalise from experience. What we have here called the suggestiveness of descriptive knowledge is its power to produce induction; in this sense. It must be obvious that a theory expendence of the continue that a theory expense.

[&]quot;Industries, is this same, must be determined from industrie proof and from intustries and determine to defined by Armtotic. Industries in this series we grassey or brocket.

not result solely from inductions suggested by descriptive knowledge. These inductive generalisations may provide some of the materials out of which a theory is constructed, but the construction of a theory is a rational process which transforms the materials it uses.

A science cannot come into existence ill a given field until a theory or an analysis has been constructed. Prior to the aristance of a theory it is impossible for extentific research to be done. This does not mean that emploratory researches prior to the existence of a theory are not needs, but merely that they are meetingly different from scientific researches which occurs after a theory exists. It also means that amploratory research cannot by itself create a science; at the most the descriptive knowledge and the isolated generalizations which emplosurely research produces provide the raw materials which may be more or less useful II. the making of an analysis and in the development of a compondent set of general prepositions to be teach by existiff research. A science grows both by the development of its theory and by improvements in its techniques for gaining evidence, but a science must first spitz before it can grow.

This dret requirement of scientific method explains the insignificance of the descriptive knowledge which has resulted from criminological investigations. In the absence of a theory or an analysis if could not be otherwise. The etiological problems which we formulated in the preceding section are too loosely stated to be capable of directing scientific research. Our inability to formslate problematic propositions with respect to the stickery of cripts If the inevitable consequence of the mon-existence of a theory of an analysis. The literature of criminology clearly illustrates the impossibility of selectific remarch in the chocace of a theory. That the body of knowledge which has so far been collected consists of nothing more than descriptions of one sort or another, descriptions which cannot be significantly employed to answer even the loosest etiological questions, is a state of affairs which could have been predicted from an examination of the methods of research.

The first characteristic of empirical ecleatific method is, then, that the data it belains are significant with respect to a scientific proposition. By significance we man relevance to the square proposition and shiftly to sid in the determination of its probability. A second requirement is closely related to the first one. The data of research must not only be significant but reliable and accurate. By reliability we mean what is semitimes called objectivity, namely, that the sums sinta can be obtained by other investigators at other thems and places if certain conditions are capable of being reproduced. By necessary we mean a degree of practition relative to the meeds of the given problem. There is no absolute standard of accuracy of data.¹⁶

What \$\text{it}\$ to be observed or measured must be clearly defined before observation or measurement can be undertaken, if one defines to obtain reliable and accurate date. If the date are guined by measure of measuring instruments, the definition is made in terms of an analysis of the measuring instrument. If the data are obtained by what can be called direct observation (observation unaided by instruments), the definition required is the definition of a concept.

This mecond requirement makes class thet sclentific observation is different from the ordinary observations of men in the course of their daily lives. The latter are observations made in terms of the concepts to be found in our common sense knowledge of the world about to. It is in terms of these concepts that we perceive chairs, bosons, frees and occass. Scientific observation is observation made in terms of the concepts of coince; it must not be made in terms of the concepts of common sense knowledge. In abort, the existence of a theory or conceptual analysis is the prerequisite to the measure trait of reliability and accuracy of scientific observation, just as the existence of a theory, the existence of problematic propositions to be proved, is a necessary prerequisite to the significance of the data obtained by observations.

¹⁶Thus, in use case it may be recovery to curry measurements test calculations out to three or four documb places, while as matter case coupler approximations will patter.

A third trait of attentific method is the development of the data of observations by processes are interpretations of the data in terms of theoretical formulae. Not all the evidence which is needed in order to determine the probability of problematic propositions can be achieved by observation; much of it must be getten by inference, inference which develops the implications on the data of observation. If the observational data are quantificative, the processes of inference are always calculations which are either statistical, in the strict sonm, or mathematical. But these calculations are sever purely statistical or mathematical. But these calculations are sever purely statistical or mathematical, for they must be guided by the meanings of the terms, the meanings assigned to the variables being employed. In other words, the inferential processes involved in scientific method are also dependent upons concentration grantlysis.

We can now summarine the foregoing discussion of arientific method. The evidence upon which the probabilities of the theorems of empirical entence rest, consists of data of observation and products of inference from these date. The data of observation must be reliable, accurate and significant in order to justify and permit inferential development. The products of inference must be not only the valid results of celeviation, but significant as wall. We have seen that the validity and the significance of the data of observation and the products of inference depend. upon the body of concepts which, as related to one another, constitute a theory or an analysis of the field of phenomena under investigation. The proper cooperation of theoretical analysis, Observation and inference is the emential trait of empirital sticktific method. To restrict the use of the term ecientific to such research as manifests the consecution of them three processes is merely to hold that no research is properly called scientific nuless it succeed in determining the probability of a scientific proposition. This was of the term scientific does not deay or ignore the assfulness of exploratory investigations; it movely indicates the limits of that maralness. We have already seen what that limit is in the case of criminalogy,

The foregoing discussion also makes clear the distinction between what can be called the findings of research and its conclusions. The fladings of an investigation are the report either In detail or in summary of the results of processes of observation. and measurement. If the data are quantitative, the findings are usually reported in the form of sintistical descriptions. The findings always consist in descriptive knowledge. The conclugions of scientific research are general propositions established. to a certain degree of probability. The conclusions of scientific research never consist in descriptive knowledge. Processes of inference and calculation must intervene between the findings and the determination of the probability of the generalizations which are the conclusions therefrom. In order for the findings to be employed in this way, to be capable of inferential development and, along with the preducts of inference, to be capable of providing an evidential basis for the determination of the probability of a generalization, it is necessary that the findings be the result Il observational processes which have been directed by the problamatic propositions with respect to which they are to be relevant. If, as in the case of eriminological research, the observational processes have not been so directed, the findings constitute a body of descriptive knowledge with artranely limited significance and completely incapable of yielding scientific concinuous.

A possible minunderstanding of this analysis of scientific method can be pointed set he order that it be avoided. We have not attempted to effer a description of scientific method, or an account of the way in which adentists actually work and think, or a history of the development of the empirical adamon. We have not stated, for instance, that a completely developed theory must be temporally prior to the execution of adentific investigations; nor have we attempted to take account of the factors of imagination and ingenuity which are necessary in the contrivance of general propositions or in the making of an analysis.

To understand the foregoing documion if scientific method as a descriptive report of the way scientists work or think would be to mistake it entirely. It must be understood for what it is, namely, an all too brief statement of the minimum logical requirements of scientific method in the light of the casculal traits of empirical actence. The analysis is too brief to provide instruction II the art of scientific work; it show not presents a specific course of action to be followed by investigators in the faild of crimicalogy. In chief purpose has been to make clear the basis of our evaluation of the knowledge that is found III the field of criminalogy tokey, and to explain what is meant by the statements (1) that no science of criminology now exists, and (2) that this is he part due to misconceptions or insafequate conceptions of arimitie method by criminologies.

A full substantiation of this last point can be achieved only by a detailed exemination of criminological research. This will be done in subsequent chapters. We need only my here in advance that it will be found (1) that the data yielded by observation or measurement are both invalid and instruitionnt because the concepts prerequisite to observation were not clearly defined or, what is worse, were the concepts of common sense knowledge; (2) that most of the data resulting from observation and measurement are incapable of having their elegificance developed by processes of inference or calculation; (8) that even the best researches have succeeded in yielding no more than statistical descriptions because of the niter lack of direction by theoretical Exalvate: (4) that even on the level of descriptive knowledge, the findings are largely unreliable because of inadequacies in the observational processes and in the application of statistical techniques. These criticisms, of course, apply primarily to the quantitative work which criminologists have done. The non-quantitative researches, of which there are a vest number, differ from common sense observation only with respect to the alightly greater detail of the report and the greater accuracy of some of the narratives which have thus been produced. Oriminological research thus exhibits all of the defects of row assirieism.

By raw empiricism we mean an exchante empirada upon observation to the total neglect of the abstractions of analysis. Raw empiricism is the most provident administrating of the nature of empirical estentific method. It is remponsible for the failure of investigations in the field of psychology and the so-called social sciences to eventuate is attentific conclusions or in the construction of sciences appropriate to those fields. If Orininological Investigators, who have for the ment part been recruited from the fields of psychology and socialogy, exhibit the lack of understanding of scientific method which characterizes must of the research in these fields. How completions is an extreme reaction against the methods of rational science which at other times have dominated the fields of psychology and the social sciences. But like other attracts we are extremed upon the syldantial or observational element is empirical science if has ignored that other indispussable component, theory or analysis.

We have shown that the role of theory in empirical actions is dearly different from what it is in the development of rational

¹⁵Th an actual actually promoness and current thought (J of Plat, 1830, 22, 283-044) Promones C 1 Leron corrected Profinete Chrony's originate of the moleculation is accord. He cade as part "Goodess as a concept to act the diagree of in versus actions to the great, but the degree of its versus as an interment of control. Preface Professor Deeps ample even, such true consistency, find less control. Professor Deeps ample even, such true consistency, find less control. Professor due to the control property consistency, find less control property or time that the find degree of interfactions, and consequent processors, which already the control property can act professors, professor give veril for the control property and adjulance may be provided protographic control adjulance and adjulance may be provided protographic control adjulance and actions, and a that the control processor of the control adjulance and the least described of the control actions, and a that

Profissor Debey's another to this criticism () of Find 1992, \$\mathref{E}\$ 27. \$\mathref{Z}\$ 1993, \$\mathref{E}\$ 27. \$\mathref{Z}\$ 29. \$\mathref{E}\$ 29. \$\mathref{E}\$ 27. \$\mathref{E}\$ 29. \$\m

science. In the latter, theory is the deductive development and systemization of propositions in terms of a rational base. In the former, it consists wortely in an unalysis which indicates the interrelation of the concepts of the science and which is expressed in the compandency of its propositions. Have empiricism has committed the error of suppossing that because rational science is atterly independent of observations, empirical science must conversely be utterly independent of theory or analysis; or what is a worse error, that theory or analysis is an empirical science results relief from observations.

The scientific method which is exemplified in the empirical physical and biological sciences in not that of raw amplifician. An examination of the work of these empirical sciences reveals the interplay of analysis and investigation which we have insisted upon as the basic, indispensable trait of amplifical scientific method.¹⁹

¹⁸Wes have supplying the physical seasoners as examples of well constructed and well designed empirical parameter. This does not some the are controlly from the mathematical parameters where are found as psychology and soundary, we that the true the mathematical parameters where are found as psychology and soundary, we that supply the properties of the state of the state where a percent of a shading for example, and the state of t

We are new prepared to sak the question is an empirical attention implies that we can give an efficiently answer to this question implies that we can give an efficiently engage to the question can methods of empirical science III applied to the subject matter of criminalogy? It is our position that affirmative answers to both questions can be maintained. To show this, we shall consider the reasons which have been advanced in support of the thesis that an empirical science of criminalogy is not possible because of the nature of its subject seation.

If by science is meant no more than descriptive knowledge, or if by aciantific method is meant so more than processes of observation, it is elvidous that affirmative means must be given to those quantions. The negative position can, therefore, be understood only in terms of the conception of ecisate and admittive position must be that it is impossible, for one reason or another, to develop an empirical science of criminology which in all emantial respects will be like such empirical sciences as physical sciences as an arrivalue, them intervalue, them intervalue, them intervalue, them intervalue them intervalue.

One reason which to given for this negative position is that the subject matter of criminology, like that of all the other so-called social sciences, has intrinsic properties which make it incapable of being constructed as an ampirical ocience. What these intrinsic properties are, is never clearly stated. It is suggested that social phenomena are more complex than physical or biological phenumera; it is suggested that social phenomena are intangible, wanescent and shades; it is suggested that social phenomena are always relative to the date and place of their occurrence. But what Il felt to be the greater complexity of social phenomena is nothing more than a lack of any clear analysis of them. Prior to the existence of physical science, or to the untutored gaind even now, physical phenomena must peem as complex on social phenomena. The intangibility and elusiveness of social phenomena is marely a function of our lack of skill and impossity in devising techniques of precise observation. The relativity of social phenomena to date and place to a result of the confusion of an historical

with a scientific approach to them. Had we a proper analysis of these fields we would see that time and space are variables like any other variables which we employ, and that we do not have to deal with particular dates and places.

Another reason given in that the physical and biological seiences can be experimental because of the nature of the material with which they deal. It is thought that sciences cannot be constructed in fields where experimentation is intrinsically impossible. This is a patent error in analysis. Experimentation is merely one of many techniques of observation. It is not the sine ous non of exact empirical science. This can be illustrated most effectively by poleting to relativity physics which is for the most part non-experimental in the simple sense is which experiment means working with materials which can be manipulated in a laboratory. There are many other instances ill both the physical and biological sciences of scientific work which is non-experimental in this narrow sense of experimentation. More broadly, experimentation can be taken to mean any kind of directed investioutlon, that is, observation directed by a specific problem in such a way that the observational findings can be amployed in the industive establishment of the probability of a generalization. In proportion as research is incapable of performing laboratory experiments in the narrowest sense of that corn, its observational data must be developed by elaborate statistical and methematical calculations. It is sufficient here for us to emphasize the unonestionable fact that the basic trait of empirical scientific mathod. namely, its use of empirical evidence to determine the probability of generalizations, is not at all dependent upon opportunities for laboratory experimentation.

Another reason arged in that it is possible for the physical and biological sciences to be metrical, and thus to achieve quantitative data, whereas this is impossible with respect to social phenomens. There are a number of errors tavolved here. In the first place, it is falsely supposed that a science is exact because it is quantitative, whereas the reverse in the case; adance cannot be quantitative, unless it is exact. Thus, impassed betany and

qualitative chamistry are exact oriences and at the same time non-quantitative. The accord error is the supposition that cartain kinds of phenomena are expalsis of being measured whereas other kinds are not. The processes of measurement are too varied and too complex to be adequately discussed in this context. They range from simple counting of instances of a defined class to the experimental measurements made by physicists. In the absence of a satisfactory account of the nature of measurement. it must suffice to say that there are no sheepmens capable of being precisely observed which cannot be measured. Wherever measurement is impossible, exerter observation is impossible. It follows, therefore, that if the observation of social phenomens. cannot be metrical, meither can it be sufficiently accurate to be worth anything for scientific use. To say that measurement of social phanomena is impossible in equivalent to saving that they are incapable of analysis and that a field of social variables cannot be defined.

None of the foregoing reserve justifies the position that an empirical science III criminology II impossible. That one does not now exist is us research for maintaining that one cannot exist, particularly when its non-anistance is so clearly attributable to obvious defects in the methods and procedures of the invarigators who have been doing work in this field. But the contrary position, that an empirical science of criminology is possible, must not be misundecretord to mean that it will ever come into existence, because that evertuality depress also upon improvements and changes in methods in the fields of psychology and the so-called accian science. These improvements and changes may, of course, never occur. In that event there will severe be an empirical science of criminology since no amount of vessureb of the kind which has been done and which is new heing done in these fields will ever result is the establishment of empirical misuous.

The criticisms we are making of the raw empiricism of criminological research are frequently met by two defences of that kind of work, which are not advanced, however, as reasons for the impossibility of an empirical science of criminology. The

first is that criminology in a young enterprise among the sciences. The same defence is made for paychology and sociology. What this must be taken to mean is that either (1) after much more time and work are spent in the collection of descriptive materials. it will be possible to begin scientific research or (2) that by the mere continuance of the hind of work which is now being done, an empirical actence will suddenly be produced out of this mass of descriptive knowledge. We have already answered this second point; let us turn to the first. The history of all of the empirical sciences shows that immaturity is a poor excuse for insignificant and inconclusive descriptive work. An examination of the origin of the sciences of dynamics and optics in the seventeenth century. and of the sciences of electricity and physiology, thermo-dynamics and genetics, in the nineteenth century, shows that at the beginning of scientific work in these fields theory and analysis cooperated with observation and investigation, and that there was no prior period of extended accumulation of merely descriptive knowledge. The social sciences are immeture not because of the shortness III time daring which men have worked in these fields. but rather because of their incompetence for ecleatific work. A science comes into existence not so the result of a long period of incubation, but as a monit of man's analytical nowars, on the one hand, and his inventiveness and insequity in the contrivence of techniques of investigation whereby to apply his analysis to experience, on the other,

The second defence is that all assence is not exact science and that the kind of actance which is possible in the field of criminology is essentially different from the kind which exists in physical and hiological fields. This position is entirely susceptored by any analysis of actence whatmerer. Empirical actence is atther exact or it is not actence. What is meant by caset science has already been briefly indicated by the essential traits of empirical science above enumerated. What it has evolution that the position usually insen is either (1) that it is proper to call descriptive knowledge science or (2) that an exact science deals with certainties rather than probabilities. Both of these positions are clearly untenable.

To call descriptive knowledge by limit offence is a confusion of the nature of wience with the sature of history. To hold that only descriptive knowledge is possible in the stated of criminology to to deny the possibility of an empirical science of criminology. To suppose that the conclusions of smelt empirical science are certainties is to confuse empirical science with rational science. We have already shown that the propositions of an empirical science can never be established as more than probable in the light of empirical evidence. All that the word enset means as applied to empirical evidence in that its between two precisely defined and related to each other by general propositions which are tapable of bring evidence because the definition of the constituent variables makes valid and significant observation possible. The adjective exact, therefore, summarises the basic testim of ampirical arises.

As the result of our discussion of the nature of empirical science and of our enumeration of the requirements of selentific rescarch, we have concluded that an empirical science of criminology is possible and that ectentific work can be done in this field. In this section we have also attempted to show that one resson for the failure of criminological investigation to echieve scientific conclusions has been an inadequate conception of the nature of acience and of the requirements of scientific research. Holding that it is possible for scientific work to be done in criminology, we do not, however, immediately proceed to recommondations of ways and means for its accomplishment. There is still another reason for the fullure of criminological research, a reason which leads us to the conclusion that whereas a prience of criminalogy is possible, it is not possible at present. We shall discuss this point in the next section. Hefore we do an however, it may be well to reiterate one implication of the arguments which have been considered in this section. Unless a science of criminology and scientific work in criminology are possible, etiological problems with respect to the phenomena of crime most forever remain familuble, and any hope which we may have that by the application of knowledge we may some day he able effectively to control and provent the

occurrence of criminal behavior, must, if we are intellectually bonest, be recognized as empty and futile.

Section 3. The Prerequisites of a Science of Criminology.

In the preceding section we distinguished between independent and dependent combiles actioners. By an independent science we mean a subject matter which is analysed into a set of variables which as a set are not found in any other science. By a dependent science we mean one which consists in a act of variables some of which are borrowed from two or more other eciences. To those borrowed variables new variables, which come only in the dependent science, may be added. Its statue as a dependent science conplats in the fact that some of he variables are borrowed from another science. Thus, physics and chemistry, physics and biology, chemistry and physiciony, are sciences independent of each other, whereas physical chemistry, bloobysics and physiological chemlatry are dependent sciences. In each case the sciences upon which these hybrid sciences depend are indicated by their names. Furthermore, it is clear on logical grounds, and substantiated by the history of the sciences, that dependent sciences cannot exist or be developed unless the two or more independent actenous from which they horrow variables, exist end are developed. Thus, physiciorical chemistry must be lorically posterior to, and historically antedated by, the empirical sciences of physiology and chamistry.

The those which we shall here maintain are: (1) that paychology and sociology are independent subject mattern; (2) that eriminology is a subject matter dependent upon the subject matters of psychology and sociology; and (3) test, therefore, the anistence and development of empirical sciences in the fields of psychology and sociology are measurally prerequisite to the existence and development of an empirical scheece of orthinology.

Fit oppose the first of these fagure, it is uncommitty to mandain that typechology and excepting the not indicated an electronic matter. If they are not independent one of them treat be dependent on the other, or they must constrict a steple mitject matter, namely, human behavior; in the latter one crossmology must be a department of the sample subject matter, that si, crossend latterers. We shall show that house behavior is accessibly the middle of the deposition from, and that house behavior is accessibly the wilder that the deposition from, and that house

That the ephject matter of criminology is dependent upon the variables which have been employed by quantitative researches in criminology. These variables consist either of aspects of human nature or of aspects of man's environment. They full into four groups: (i) physical supects of man's environment; (3) social supects of search environment; (3) physiological supects of man's environment; (3) physiological supects of them's nature. This may mean that the subject matter of criminology is dependent upon more than two other subject matters. For the sake of brevity and clarity we shall vanished this discussion, however, to the dependence of oriminology upon psychology and sociology, which appear to contribute the largest number of variables to be found in triminological research.

Whereas it is apparent from the literature of criminology that its subject metter is dependent upon the subject matters of psychology and sociology, the literature of psychology and sociolugy does not reveal a conception of these two subject matters as most part the subject matter of sociology has been confused with that of psychology, and the subject matter of psychology has been exponently conceived as hemme behavior. We can indicate this confusion within the scope of this discussion only by presenting a brief analysis of the subject matters of psychology and sociology, which exhibits them as completely independent of one another.

To begin with, the subject matter of criminology is criminal behavior. The study of criminal helavior is, of course, merely a department of the study of human behavior is general. The study of human behavior must take into account both human and sovironmental variables. We have sum that an etiology of criminal behavior must take into account both human and environmental variables. Our point then becomes simply this: Sither the human variables are independent of the savironmental variables, in which case psychology and suckology are independent witcuce; or, is the human variables and the environmental variables cannot be studied separately, then psychology and sociology not only are not sudopendess solomes but they are a single aciance having a single rubject matter. If the latter II the case, then crimicalogy is not A dependent science, since it cannot be dependent upon psychology and sociology unless they are themselves independent of each other; crimicalogy becames merely a department of the science of human behavior, which can be called either psychology or sociology, if these two names can be taken indifferently to refer to a simple science composed of a mische set of variables.

The independence of psychology and sociology of each other. therefore, turns upon the question whether busins and appironmental variables, such as those indicated by the literature of griminology, form a single unified set of variables, the members of which are ingrescable from one another, or whether they comprise two quite separable sets of variables which constitute different subject matters and which have been berrowed by criminalogiats for use in the study of criminal behavior. Our position is that psychology is a study of variables which result from an analysis of the generic concept men; and that sociology if the study of variables resulting from an analysis of the generic concept man's environment." These two generic concepts are not co-variables; they are independent of each other; as a result of their independence, the two sets of variables produced by the analysis of these two concrie concepts are necessarily independent If such other. All the variables within each of those sets must be so-variant with respect to each other, but the variables in one set are not necessarily co-variant with the variables in the other set. The co-variance of human with environmental variables can only result from the construction of a descendent ocleans of human behavior which takes some of the variables from each of the two sets and formulates their co-variation with each other.

In other words, we hold timt the study of human behavior is not the subject matter of either psychology or sociology. The prevalent confusion of these two fields with each other, and with

NOtes science can be destinguished from matter only in terms of different priorie compay which differentiate their subject matters.

the study of human behavior, has been one of the chief factors responsible for the failure of knowledge in sither of these fields to achieve the form and status of empirical science. In order to make the foregoing analysis close we shall now attempt a brief examination of the kind of knowledge to be found in the fields of psychology and sociology. We shall furthermore attempt to illustrute what we mean by the independence of psychology and sociology by reference to economics on an empirical science of moe's encironment* which is independent of psychology, and to psychometrics as, in inception 51 least, un compirical science of mon cutirely independent of any study of man's environment. It will be seen that neither the subject matter of economics nor that of perchametrics is business behavior; the former is the study of a set of variables produced by an analysis of the economic aspects of man's employment; the latter is the study of a set of variables produced by an analysis of psychological, and not physiological, america of human surfure.

An empirical ecience of purchology does not exist. With the exception of psychometrics, which we shall discuss presently, the knowledge which has resulted from psychological researches is either descriptive, quantitative or non-quantitative, or, if not merely descriptive, knowledge which belongs properly to the subject matter of physiciony and not to that of psychology. The study of man ous animal is the subject matter of human physiology. Either the subject matter of nevchology is independent of the subject matter of physiology, or there is only one science of man. It seems clear that lemma waters can be analyzed into a set of variables none of which are physiological. The work which has been accomplished so far in payebometrics II evidence of this. The subject matter of psychology is man que mon and is thus distinguished from the subject matter of human absolutory. Exclud-

[&]quot;Man's environment can be the orthical matter for a number of solutions which deal with specifically different ampetes of annich convenament. For an economic solution with the concentral aspects, aspecting with the number splices of supera shall environ the supera shall be supera shall

ing, therefore, all researches by psychologists which have contributed knowledge to human physiology, what remains is a large many of descriptive materials which do not have the form or status of empirical acleace.

What we have called psychometries is a body of researches which satisfy the minimum requirements of arientific work. "The variables which perchametries employs are all psychological. Its observational work in directed toward testing generalisations formulated either statistically or methematically. Psychomatric theory is still relatively undeveloped. Nevertholess, the importance of theoretical analysis is recognized and this indicates that in this small group of remembers, at least, there is none of the raw ampiricism which prevails threeshout the rest of perchology.

It may be objected that the literature of psychology does contain theoretical analyses of human neture and that ampirical research has been directed by these engineer. Critical examination, however, shows that this is not the case. The general propositions which can be found in psychological literature are either theorems in a retiened science of perchology or common sense generalisations, diagnised by the specious technical language in which they are stated, or opinions which have insufficient home in ampirical oridence. What is called theory III psychological literature is speculation and not analysis. Furthermore, the experimental investigations of behavior which have been carried on by psychologists have never been directed by what are emprosed to be the theoretical accounttions of agrehology. The atrongent

^{**}Psychometrics until be detemposhed from the experimental rudy of behavior first the experimental rudy of main. Work is psychometrica was beginn by Calvin and Cabrill, and is forthy carried in by Theoretic. Spenimen. Speniments are at others for a discussion of the finiture of bepotencedal psychology, see E. G. Boring. A Memory of the finiture of bepotencedal psychology, see E. G. Boring. A Myles of an analysis of the finiture of behavior of the psychology of psychology of the psychology of psychology of the p

indications that the methodology of experimental psychological research is defective are (1) that the great mass of data resulting from observation and measurement has not yielded a single significant conclusion and (2) that it has never been satisfiated by any of the no-called theories connecting in the field.

The failure of psychological research is day, first, to the same kind II misconception of the nature of science and scientific method which the literature of criminology exemplifies, the misconception which we have called my ampiricism; and, second. to the lack of definition of the subject matter of empirical paychology. This second factor to remonsible for the large amount of research in physiology which has been performed by psychologists, for the confusion of empirical with rational psychology, and for the attempt to sindy human behavior prior to the establighment of an empirical science of man. Perchometries in exceptional in that it is independent of physiology and rational perchology, and il not a study of busine behavior. Furthermore, psychometrics shows that an empirical study of man's nature is independent III on empirical study of ments environment. Environment is not one of the variables produced by an analysis of man. It is a constant in psychological research.

An ampirical science of sociology does not smist. Rociological investigations have yielded the same hinds of descriptive knowledge which are to be found in the literature of criminology. There is not a single scientific proposition in the field of sociology which has been established as a conclusion from empirical cridence. The general propositions which can ill found in sociological literature street either common sense generalizations, disquised by a specioral technical vocabulary, or speculative spinions. What ill called theory in sociology is speculation and not analysis. There is no relation between these speculations and the empirical researches which have been accumplished.

The failure of sociological remarch, like that of psychological research, is due, first, in new considerious, and, second, to a confu-

^{**}To creat environment as a constant source (1) that the term is tracted as managered and (2) that it is not treated as a product of the analyses of a more generic content.

sion of the proper subject mather of sociology with a sobject matter which is dependent upon the prior substance of sociology and
spychology, namely, the ctiology of human behavior. The subject
matter of sociology must consist in a set of variables which are
an analysis of the social superis of man's environment. It is
obvious that man is not see of these variables. Man is not a
product of an analysis of man's environment. Just as environment must be a constant in psychological research, so man must
be a constant in sociological research. The study of human behavior, which involves the co-variation of man sud man's environment, is properly the subject senter of a dependent science which
can ill called social psychology or given any other name which
indicates the dependence of the study of human behavior upon
the price independence electrons of probelogy as sociology.

There is only one existing empirical ectence which has for its subject matter the study of man's environment. We refer to this science merely to show that a stady of men's environment II completaly independent of a study of man. The evience to which we refer is mathematical economics, which must be distinguished from descriptive aconomics. The latter term refurs to a body III knowledge which to descriptive in character and which represents the same kind of confusion of economics with psychology that is to be found in sociological literature. Descriptive economics in an attempt to study human behavior, even though the prorequirits empirical science of psychology does not exist. But mathematical successful is train an empirical effects of man's environment. differing from the subject matter of enciology in that its variables are the result of an analysis of the economic aspects of man's environment. Mathematical economics, like psychometrics, szhibits none of the methodological defects which we have sommarised by the phrase 'raw completeboar'. Researches in this field have succeeded in submitting actentific prepositions to empirical evidence; these researches have been directed by problematic propositions formulated by theoretical analysis. While mathematical economics is at present better developed than psycho-

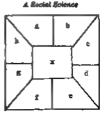
Mit to highly quantimatic that 'swintegy' and value to called 'publical science' to helpstature of such offers.

metrics, it is still fragmentary and incomplete with respect to the field of economic phenomena.

That a study of man's environment is independent of paychology, and is not a study of human behavior, can be illustrated by the consideration of a single proposition taken from mathematical economies. We can formulate the demand function as follows: "Demand for any article in a given laterval of time is a function not only of its uries but of the prices of all other artiples at that time". The evidence in terms of which this proposition can be tested does not include any knowledge of human nature. The proposition is independent of any proposition in paychology. All propositions in mathematical economics are of the same sort. If so, in economics is the constant aconomic men who has a demand for an orticle and pays a price for it. The relation between demond, the number of orticles, and the price paid for any article is a function of these three variables exclusively. This is what we mean by saying that man is a constant and not a variable in any science which, like mathematical economics, is a study of man's environment.

We can summarise, and perhaps clarify, the foregoing discuston by means of a simple diagram which shows the independence and the relation of the subject matters of psychology and the various social sciences.





In the above diagram the letter x represents whetever is held constant; the letters a. b. c . . . represent variables. In a science of navehology, a represents the environmental constant and a, b, c . . . are the psychological variebles derived from an analysis of man. In a social science, whether it be sociology or sconomics, a represents the human constant and a, b, c . . . are the environmental variables, differing of course according as the social sciance is sociology or economics. It is important to note that the falds of perchology and the social sciences are congruent. What Ill analysed into a set of variables in one field is treated as a countant in the other, and conversely. The psychological variables are co-variant with each other but not with the environmental constant. The environmental variables are co-variant with each other but not with the human constant. That the constant in one field is analyzed into variables in the other, and conversely, indicates the possibility of a dependent science of human behavior, which will select some of the psychological variables and some of the environmental variables and attempt to formulate and investigate their co-variation with each other. It must be obvious that this latter science cannot be constructed unless and until the independent sciences, which are to be correlated, already exist and are sufficiently developed to be thus used.

Criminological research, is so the as it seems to answer etiological questions, is a study of human behavior, and more particularly of criminal behavior. A study of criminal behavior may precede a study of other types of human behavior, but ill cannot precede scientific development of the subject septers upon which any study of human behavior sums depend. We concluded in the previous section that an empirical science of criminology is possible. We must here concludely by qualifying that possibility. An empirical science of criminology is not at passent possible because no empirical science of emissionly is not at passent possible because no empirical science of psychology and sociology now crist. Criminological research, which we shall survey in subsequent chapters, not only exhibits are empiricism but also represents an attempt to do the hopessible.

Orizinalogists have proceeded with the study of human behavior in the complete absence of the two bodies of scientific knowledge which are prerequisite to such a study. Whether or but an empirical science of criminology will be developed in the figure depends upon whether or not the empirical sciences psychology and sociology will be created. The same reasons which we advanced for the possibility of extention work in criminclosy hold even more clearly for the subject matters of paychology and enciology. But although they are possible, it can be predicted that empirical sciences will not be constructed in the fields of psychology and sociology upless the raw empiricism. which now dominates the methods of research in these fields is replaced by a correct concession of the nature of acience and acientific method, and value the confusion of subject matters which now prevails is eliminated by theoretical analysis which will astablish their independence.

In subsequent chapters we shall review the results of criminological research. Ill order to undertake a critical samplystion of these researches we must treet them as if a spience of griminology were it present possible, contrary to our conclusion that that is not the case. Even though much of the work which has been done has not been directed by even ragualy conceived. problems, we shall treet all of it as if it were directed. If we did not make these two assumptions, we could do no more than critisize the results of these researches with respect to their reliability and accuracy so descriptive knowledge. Even though it should now be clear that significant scientific conclusions cannot at presgot be achieved by eximinological resourch. It will nevertheless be instructive to criticise the findings in detail for their lack of significance. The methodological defects of raw supericlem and the confusion of the subject matters of psychology and sociology will thus be concretely exemplified.

We repeat that our evaluation of the results of crimicological research is not bessel succely upon the rigorous standards of scientific work. The argumey of the practical problem of the control of the phenomena of crime requires us to evaluate knowledge in

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terms of its terriphens in the solution of this problem. To say that criminological research has resulted only in descriptive knowledge means, first, that it falls to satisfy the requirements of empirical science, and, second, that it has made no useful cuntribution to the solution of our basic practical problem. The instillity of descriptive knowledge with respect to the control of phenomena is one of the clourest lessons to be learned from the Matory of the sciences. Man's technological power, whether II he in engineering or in medicine, is directly proportional to the degree to which be bee achieved empfeical acteurs in the fields of physical and biological phenomens. The nearer a body of knowledge approximates the ideal form of empirical science, the more usoful it is in practical application. The prospey of the practical problems of crime impels us, therefore, to seek their solution not by the kind of research which has so far prevailed in criminology, but by an effort to create empirical sciences of psychology and sociology in the hope that when these prerequisites have been satisfied, we shall be able to preceed to me etiology of haman behavior.

Chapter V

PERSONAUCHES IN CAUSATION

Section 1. Preliminary Discussion: Problems and Methods.

Considered most generally, the problem ill the trunkfun of considered most generally, the problem of the silicianty of southof of trusting offenders and the problem of the silicianty of other means, both official and unofficial, for preventing the occurrence of criminal behavior. Criminological researches fall acturally into three groups: (2) those which are concerned with the problem of trustings; (2) those which are concerned with the problem of prevention; (3) those which are concerned with the can be called the problem of causation. In this last group the word causation is being used in a restricted sense to acclude the etdological questions included under the beads of treatment and prevention. Since this and the two subsequent shapters will attempt to survey researches in causation, treatment and provention, it is advisable here briefly to report the distinctions is swelved in the case of these three robries.

Distinction can be made between the problem of canaction and that of treatment in terms of the distinction between potential and actnal estimates. We are interested in knowing both why potential criminus became actnal constuming and why actual oriminals become racidivists. The first question roughly states the problem of canaction; the meand, the problem of treatment. The problem of creatment can also be formulated in terms of questions about the reformative and determent effects of various modes of transment. It is clear that both of these groups of researches are attempts to answer cticlogical questions. In that seuse both have to do with canactics.

The problem of prevention can be distinguished from the problem of treatment by reference to the distinction between the administration of the criminal law so a preventive device and other preventive measures. The problems of prevention and of cansation can be distinguished by formulating them as questions. If the problem of cases by formulating them so of the question why do some potential criminals become actual criminals, the problems of prevention can be formulated in terms of the question why do not all potential criminals become actual criminals. In other words, stadies of prevention are attempts to discover the factors which restrain potential criminals from becoming actual criminals, and are thus distinguished from studies of causation which are attempts to discover the factors responsible for the occurrence of criminal behavior.

This tri-nartite division of problems and researches in criminclogy is, of course, somewhat artificial and arbitrary. It is only for nurposes of clarity of analysis and convenience of disquestion that we shall subsceneatly consider the problems of treatment and prevention spart from the problem of causation. However, their penarate treatment should not be permitted to obscure the essential unity of these problems or the great complexity of the phenomena with which they are concerned. It would be unfortunate if our discussion of these problems senarately should obscure their relationship or give the impression that any factors antaring into criminal behavior can be considered in isolation. It would be especially unfortunate if the impression should be created that any method of treatment or any preventive measure can be considered assert from other factors in the cannol background. It is important to realise the tremendous complexity if the problem which confronts the analyst who seeks to discutapple the caused influence of some method of treatment or of some preventive measure and to relate it as a causal factor to the rest of the canonily significant factors.

In this section we shall undertain a discussion in the technique of cristuological research. This discussion is preliminary not only to investigations in committee but also to those in treatment and prevention. The fact that each of these three problems is a phase of the general prelicus of the choicing of crime, and the fact that emphrical studies of these problems employ the same techniques, make this preliminary discussion applicable to all three.

In the previous chapter we distinguished between quantitative and non-quantitative houselegs. The survey of criminological research which is presented in this and is ambasquent chapters is restricted to a remanary and criticism of investigations which have resulted in quantitative findings. There are a number of races for this limitation. In the first place, invastigations which result in nurrative reports or descriptions cannot be summarized or compiled. In the second place, their validity cannot be evaluated. In the third place, they are incapable of yielding answers to stological questions. Even if they could be summarized and even if some astimate of their validity could be made, the relavance of these investigations to problems of causation, irratiment and prevention would be too remote to warrant a detailed consideration of them.

The distinction between fludings of research which are expressible in quantitative form and those which are not, must not be confused with another distinction which we have already made, namely, that between descriptive and acteatific knowledge. Quantitative knowledge may beek generality, which is one of the essential tests of the essential rests of the essential proposition. Quantitative knowledge, like non-quantitative knowledge, may be morely descriptive. But the fact that knowledge is descriptive dees not prevent it from serving a function which is indepenable in the derailpment of an empirical actence. If descriptive knowledge satisfies certain requirements, it can be used as a busis for inference or as widened in terms of which it way be possible to determine the probability of a generalisation. In other words, what we have previously called the empirical lane upon which a body of general propositions rests, consists of descriptive knowledge. Propositions of

The one exception to this submissest is with request to descriptions of various methods of treatment stand of visitions practicative maintenance. Non-quantitative knowledge of the process of the contract of effections and in effects to prevent extract in adiaposable to a study of the effects of these procedures and involutions. But even in this one extract of the effects of these procedures and involutions. But even in this one extract of the effects of these procedures are all regularized to the extract of the practically improved to account within the stage of the book mech involving of this seat as one lines.

descriptive knowledge report the evidence obtained by observation and measurement, which constitutes the data of research. We shall, therefore, he concerned in this chapter with the quantitative descriptive knowledge produced by crissinological research, in order to determine its validity in the first place, and its scientific significance in the assembly.

It is necessary here to recall the conclusions of the preceding chapter: first, that no scientific knowledge exists at present in the field of oriminology; and, second, that in the present state of paychology and esciology it is impossible for eclentific work to be done ill criminology. We shall nevertheless survey the researches which criminologists have completed as if they could be considered as attempts to obtain evidence neefs! in the solution of the etlological problem. By this we mean that we shell treat the quantitative findings as data to be employed as a basis for inference. It is only by considuring the sadings in this way that we shall be able to criticise them with respect to their significance as Wall as with respect to their vehiclty. In many cases the investigators did not plan and execute their research in the light of any problam. In other cases the investigators had vague formulations of problems toward the solution of which they directed their labors. We shall call the former type of research exploratory, to distinguish it from the latter type, which we shall call directed research. Even though ecceptific remarch in criminology is at present impossible, directed research more nearly approximates the form of scientific research than that which is exploratory. For 912 present purposes, however, we shall consider all quantitative findings as if they were the results of directed research. If will later be seen that the complete ineignificance of most of the knowledge which is reported in due to the fact that it resulted from exploratory investigations. That none of the knowledge reported is conclusively significant in due to the fact that even the directed research in this field was directed by vague and insidequately formulated scotlems. Since no themy or analysis yet exists in the field of criminology, it could not have been otherwise.

Rince we shall attempt to treat all the researches we are about to marvey as if they were directed, it will be necessary to formilate briefly the problems which could have directed them. Since we shall attempt to estimate the waitiffly and the significance of the data achieved by these researches, it will be necessary also to state the exiteria to terms of which such judgments can be made. We shall thus be prepared to describe the specific methods of research.

The preblems we are about to formulate here already been stated in the previous chapter. We shall restate them here in such a way as to emphasize the direction they have given W investigations in the field of causation. These problems are unfortunately not specific; they do not counte to questions based upon problemsanto propositions to be found in a theory or an analysis of the phanomena of orders. The major problem can be stated in the question: can oriminate be differentiated from non-oriminately The differentiation will, at course, have to be used in terms of one or more factors. The question can therefore be reworded as follows; what factor or factors differentiate criminals from non-criminals? This laster phenotop of the question must not be permitted to obscure the fact that at present we do not know whether oriminals can be differentiated from non-oriminals in any way whatmore except by reference to the oriminal law.)

In the light of this general question we can, of course, take any given factor which may be suggested and ask with respect to

The yeldpect posters of crossosiony in, so we bare and criminal behavior. As the bows suggested, some lower by shough differentiating crassisal polaritor flows assumed barbard and criminals from some criminals in a see see see or of the development of the solution of criminals from some criminals in a see see see or of the development of the solution of criminals from the second seek of the criminals from non-criminals in significant for his propose. If it is not, well have to discuss our control behavior, and other barbard of differentiating criminals from non-criminals in significant for his propose. If it is not well have to discuss of differentiation which is significant to absolute his attempts to construct a aroman of criminal behavior. Moreover, it is not absolute his attempts to construct a aroman of criminal significant to absolute his attempts to construct a aroman of control behavior. Moreover, it is absolute his attempts to construct a stream of the solution which is not a window and of the solution of the solution, absolutely are solved in a window and driving out the vertical season of the solution of t

It whether or not IX differentiates echainals from non-criminals. Problems can be similarly immunisted with respect to two factors or with respect to groups of more than two factors. Even if questions of this sort were fit present answersed, If must be clear that the answers would not comultive solutions of the chickegical problem. It is for this reason that we have said that we are not able to formulate sticlegical questions precisely and that the best we san do is to indicate the rugue, general questions which can be considered as objectives of the rusmyches to be surveyed.

A few unlowdinate problems can also be formulated, Can various subgroups of criminals, classified according to the kinds of orders which they have committed, be differentiated from each other? Can any one of these sub-groups be differentiated from non-criminals? Are there some sub-groups of non-criminals which are distinguishable from some sub-groups of one-criminals in that they can be differentiated from criminals or can III differentiated from some sub-groups of criminals? All of these problems are of the same sort; they are all concerned with the differentiation of groups of individuals in order to discover what factors correlate with ordinative or a given type of criminals.

The researches we are about to corvey have not even attempted to answer all of these questions. If not of them have been directed by the first problem formulated above, namely, the differentiation of oriminals from non-criminals. A few researches have been directed toward the problem of differentiating various, types of reinimals or of differentiating a given type in criminal from non-triminals. No researches have attempted 64 differentiate criminals or various types of erinainals from none but not all types of then-criminals.

The foregoing renearch problems indicate that the researches which can be considered an directed must always countain in the study of factors which can be correlated with criminality or some type of criminality. These factors are either truits or aspects of human nature, or they are churuchristics of, or elements in, human environment. For the suke of brevity we shall call the first group known factors and the amount, environmental factors.

The autors of the freegoing problems indicates the kind of answers which heredigations directed by them must give, since the problems require the differentiation of groups of individuals by reference to characheristics pomented by one group and not by another. The answers must take the form of one or another type of statistical index of correlation. The raw data achieved by observational processes cannot constitute answers to the questions which have been stated. These data must be treated statistically, That statistical treatment may yield conclusions which answer the questions which directed the gathering of the data.

We shall for the time being ensume that the data are capable of theing treated by statistical processor, that is, we shall assume that validity as products of observation and that they are of such a character that they can be used in some type of statistical inference. If the data are use capable of giving view to statistical inferences, they remain merely information chout some definite group of individuals which has been observed or measured. Whatever value such quantitative descriptive knowledge about a definite group of individuals may have, it is obviously inadequate if we are interested in answering questions such as we have asked. As the phrasting of these questions indicates, they require research to differentiate criminals from non-riminals, not a particular group of individuals who are criminals from another particular group of individuals who are certainals.

However, we repent that although the engwers to the questions which have sireted erinduological resourch are necessarily statistical conclusions in the form of indiom of correlation, they are not nuwers to questions of effector. This point ratterates what has already been said, namely, that the problems which have directed criminological research are inadequate. If regarded from the point of view of the citology of crime, they are at best crude preliminary questions.

A single coefficient of correlation by itself does not state the functional dependence of one variable upon a notice variable, or upon a group of variables. It is a symmetrical relation which measures the intendegendence of two variables, but this relationahip must be known to exist independently of the coefficient of correlation. Furthermore, while a single coefficient of correlation measures the relationship of two variables, it does not relate them to other variables to which they may in fact be related. This can be done only by an elaborate statistical analysis which is colves the intercorrelation of a set of correlations, purtial and multiple correlations. In short, single coefficients of correlation are almost uniquidense. Even the regenesion equation must be intercreted in the light of independent incorrelation.

The findings of eximinological research, when they are capable of being interpreted at all, have an extremely limited significance. which II manifested in the nature of the problems by which ther are directed. As we shall see, the findings cannot be used even to solve these problems. It is important, however, to remember that were these problems salved, their solution would be only a slight step toward answering exections of etiology. The researches themselves reveal a large number of factors treated as if they were relatent variables. But the research findings do not suchle us to tell which of these factors are relevant and which are irrelevant. The selection of relevant variables and the elimination of irrelevant variables is an indispensable step in the solution of etiological problems. Let us suppose that we had enough knowledge to eliminate the factors which are not rulevent as variables. It would then be necessary to discover the interrelation of the relevant variables and to determine the exhaustiveness of the set of variables being employed. A few investigators have recognized that these requirements must be satisfied in order to make ctiniorical interpretations of their fudings. They have attempted to distinguish major and minor factors, exciting and predimentary factors, and have recognized that certain factors may be allied, whereas others may exert counteracting influences on one another. These seem investi-

"For an adequate discussion of the lambel eligiblescop of the coefficient of correlation are G Udroy Yale, he overelation to the decay of statistics, London: Serific & Co., 1977, Co., LX-XII, Adv. F. C. Malle, Sandetona instructs, New York: The Macmillan Co., pp. 405-400, 301; and M. Berlind, Sandeton of convolution statistics. New York; John Waley and Sons, Inc., 1980, Co. 38. gators explicitly appreciate that both bussen and environmental variables most be studied in any sitempt to obstruct an etiology of criminal behavior. But for the most part, the research workers in the field of criminology have not even recognized why their findings are hopelessly insidequate.

We have classified the investigations reported in the following south of the remarch in the causation of crime, but it would be a weste of time to examine the destinate or investigations for their citalogical significance. They have more whatsoaver. We classify them an researches in causation servely because the investigations have always conceived their work as having citological significance. It will be feated more appropriate and more useful to criticiae these researches in the light of a more moders standard of accomplishment which is indicated by the questions by which thay have been directed. Correctly concrived, they are morely attempts to discover whether criminals can be differentiated from non-criminals, what factors can be employed in this differentiation, whether certain types of criminals can be subordinately differentiated, see. We shall do no move, therefore, than to evaluate the research foldings is the light of the size.

We are now prepared to commercia and briefly to describe the various methods which criminal oldered have employed in order to obtain data which can be need to the solution of these problems of differentiation. The sames we shall give these methods are somewhat arbitrary and not always entirely appropriate, but they will nevertheless every as labels for purposes of discussion.

First, there is the test method. As the same suggests, it consists in the use of some kind of improment whereby a human factor is recorded or measured. For anample, a scale is a device for detecting the presence or almenes of certain glautular conditions. An intelligence test is an improment for measuring as cartain type of ability. A character test is a similar instrument, A questionnaire may be a measuring or a recording instrument; it is the former if there is some way of sooring the answers numerically; it is the latter if it can be used measing to register the

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presence or absence of certain traits. In short, the distinguishing mark of the test method in that its data are obtained from observation utded by some instrument rather than from standard observation. The test method is essentially the same whether used by a physiologist, an anthropologist, or a psychologist. And whether the test instrument measures or simply records, the data obtained are either nonzerical or can be dequareated, and is either sympton be treated statistically.

Naxt, there is the case bistery method. No instrument is amployed, although the quantisqueire may be used as an aid in obtaining the case history. When the case history is obtained, however, it w studied directly and without the assistance of instrumentation. The investigator most, a course, know in advance what he is looking for in order to obtain data by an inspection of the case history. If he is a psychiatrist, he may be interested in what we have called human factors, traits or aspects of human charecter, the diagnostic significance of which he already known or thinks he known. Such factors are for that reason prosily called symptoms, and the case history II treated by the psychiatrist as part of a clinical picture. If the investigator is a sociologist, he will usually be interested in discovering certain environmental factors in the biographical report. In order for him to dissover and select these factors out of the case history he examines, he must have some prior definition and understanding of them. In this came, they are like the symptoms which are significant in the light of psychological disquestic schemats. The case history is solden exhausted by the investigator; his one of it is highly selective. The factors which he selects for study in a given piece of research are chosen usually in the light of the particular problem which the inventigator formulates for himself. The results obtained by the case history method are of course, capable of being designerated and of being treated statistically.

Finally, there is the comme method. It is not a primary method of investigation, but rather a method involving the selection and manipulation of data obtained in prior investigations. largely for the purpose of further statistical treatment. Thus, an attempt to correlate variations in the amount of criminal activity with the variations of property in business cycles, is a use of the census method. The inventigator makes no observations. The data which he employs are obtained from the phenyulans of others.

The cannot method may therefore be distinguished from the other two by its exclusively instincted meaner; with the other two may lead to statistical processes and to the drawing of statistical conclusions, they are initially involved in gathering their own data. The factore which may be taken into account by the cannot method may be human or environmental variables. The consus may be a denumeration of the presence, absence, or degree of presence or absence, of one or more human or environmental factors.

In terms of these three methods of research, we can now distinguish between the two major appreaches which will be found represented in the investigations to be careaged. Although, as we have shown in the previous chapter, the criminologist should be, strictly speaking, seither a psychologist are a souldlegist, but an investigator employing knowledge derived from both of these fields, oriminological researches have fee the most part been conducted either by psychologists or by eschologists. We can distinguish in general between the psychologists and the sociological superoach to the problem of differentiating oriminals from ano-criminals by reference to the kinds of factors studied. The psychologist is interested in what we have called the survivousmental factors. This pshould similarition reflects itself the environmental factors. This pshouly similarition reflects itself

^{*}There is a verbal continuous neimons firsts the physics connotations of the word content which must be sentimently general septimic According to current word content which were to content with the content of the con

in differences in the sec of methods of research. The psychologist uses either the test method or the case history method. The suchlogist mass either the case history method or the census method.

To in necessary, therefore, to distinguish between the psychological and the socialogical can describe the metal of the case history method in order to diagnose the insityidual as being of a certain type or as having certain typical tenits, whereas the socialogist employs the case history method to detect the presence or absence or the degree of presence or absence or down or more certain tenits in the blographies of individuals of a known type. Just as the psychologist's diagnostic use of the case history depends for its validity and significance upon some conceptral scheme underlying his diagnostic, so the socialogical use of the case history depends for its validity and significance upon some conceptral scheme underlying his diagnosis, so the socialogical use of the case history depends for its validity and significance upon the classification and definition of assistences.

Although the methods employed in oriminological research can thus be desarly distinguished one from emother, actual investigations do not necessarily employ one method to the acclusion of the others. A given piece of research may combine two or more methods. These, for stampte, Oyril Butt, primarily a paychologist, amploys the test method, the psychological use of the case history method. Similarly, Clifferd Shaw, a sectologist, employs the psychological use of the case history method. Similarly, Clifferd Shaw, a sectologist, employs the psychological use of the case history method, the sociologist itse of the case history method, and the comme method we shall find that the best researches are them: which have been accompilabled by the employment of two or more methods in combination.

We have now stated the specific problems toward the solution of which research in camantion has been directed, and we have also stated the methods employed in these researches. It is important at this point to show that the methods are capable of yielding data relevant to the problems. This can be done by stating a parable of prepositions which indicate this adaptation

of the methods to the problems. The following propositions are in a sense the postulates which criminologists have made, either explicitly or not. It will be seen at once that all research which has thus far been conducted has been based upon these postulates and that the quantions which investigators have formulated for themselves are assuranthly by empirical evidence obtainable by one or another of the foregoing methods.

- (1) Individuals can be differentiated in terms of one or more human or environmental factors, and they can be classified according to them differences. If a factor is measurable, individuals can be classified according to the degree to which the factor is present. If a factor is susceptible only to direct impaction, individuals can be classified only according as the factor is necessarily as the factor is remark or about.
- (2) Environmental situations can be differentiated in terms of one or more constituent elements, and thuy can be classified according to these elements. If an element is measurable, environmental situations can be classified according to the degree to which the element is present. If an element is susceptible only to direct impaction, sovironmental situations can be chamified only according as the element is present or absent.
- (8) A class of individuals can be determined by an anumeration of factors which can be transed as characteristic traits of that class of individuals.
- (4) A class of environmental situations can be determined by an enumeration of factors which can be treated as elements in that class of environmental situations.

Reintenou Postulates.

- (8) Individuals posmating diverse traits exist.
- (6) Environmental attentions constituted by diverse elements exist.

Since in the following sections we shall criticise as well as report criminological researches, it is advisable to state in advance the specific criteria by which we shall evaluate their findings. We shall separate these criteria faint two groups: (1) the conditions upon which the sublitty of the findings rests; (2) the conditions upon which the significance of the findings rests. We shall subordinately distinguish the conditions of statistical and of theoretical significance. These conditions express the minimum methodological requirements which investigators must satisfy in poder to do valid stell significance.

The validity of data commists in their being accurate and raliable. By accuracy is meant the precision of the observation or measurement; by reliability, the surforming of a number of observations by the same or by different observers. Both the accuracy and the reliability of observations depand upon the definition of the observable, that is, the class of items to be observed. The item cannot be either counted or measured unless it is unambiguously defined. When a measuring instrument is employed, the necessary definiteness should be assured by the precision and uniformity of the instrument; when individuals are classified and then counted as measures; when individuals are defined classes, accuracy and uniformity in the antigument of individuals to classes depend upon the clerky of the definitions out of which the classification is constructed.

Becearch which employs a measuring instrument is, of course, subject to possible inscrumery and variability in the intramuniticality in these defects are more easily swercome than the obstacles to accuracy and uniformity of observation present in research which is carried on by direct inspection. A test instrument can be tested for its accuracy and uniformity. It is much more difficult to secretain the accuracy and reliability of human observers. E soust, of course, he resumbered that unless the nature of the test instrument is defined, eithough the data which it yields may be accurate and ratisable, the significance of the data must be otherwise determined. When observation is by direct insuccetion without the will of instruments, the definitions

⁹H one requires systemate for this point, he small only refer to Dorothy S. Thomas, Some new techniques har studying second behavior. How York: Barrow of Publications, Touchery Offices, Columbia University, 1991.

of the observables, indispensable to the accuracy and reliability of such observations, may or may not also render data significant, according as these definitions express concepts which are memhers of a set of compondent variables.

This first requirement can be minimized briefly as follows: (1) The data of direct observation must be instances of defined classes of observable items. (2) An estimate of the accuracy and reliability of the human chapter suppleyed in direct observation of phenomena should accompany the net of the data derived from such observation. (3) The data derived from the use of tast instruments should be accompanied by some measure of their accuracy and reliability. Unless these minimum requirements are satisfied, the validity of the data remains completely indeterminate. Invalid data should not be used as a basis for inference or interpretation; nor should date the validity of which is neither known nor capable of being colleged. Unless the data are valid in the two senses indicated, the use of numbers to represent either the results of counting or of measurement is a victors practice, because it gives the data which are denumerated a specious definiteness and comparebility which they are not known to possess. It is furthermore, obvious that unless the data are expressible namerically, they are not eneceptible to any statisdeal treatment.

Two stages fit the interpretation of valid data must be separated. The first we have already discussed under the head of statistical inference. The second in the interpretation of the results of statistical inference. The data of observation or measurement have no generality; they always constitute knowledge about some perticular manpling of the universe. Statistical inference in the process by which we paus from the knowledge of the particular sampling to knowledge of the universe represented by that sampling. The products of statistical inference may therefore be said to have a generality which the data of observation or measurement necessarily lack. Since our research problems are nover formulated with respect to definite aggregates of mid-viduals but always with respect to the classes of which any

definite aggregate of individuals is only a associate, it is always necessary for the charrest to be able to develop the data of observation by the application of statistical processes.

The requirement which research must entirely at this point can be stated as follows. The data must not only be valid but they must be expable of yielding maniferical inferences. This capacity depends upon a number of factors which can only be mentioned here, such as the filteness of the sampling, the size of the sampling, the homogeneity of the sampling with respect to other traits than the observed truit, the distribution of the observed trait, whether continuous, discusses, pormal, bi-model, multimodal, sec.

It may be possible to apply a statistical process to data even what it is strictly not covered to make such application. Before any statistical procedure is embryone with respect to a given set of data, therefore, it is always accountry to determine whether that statistical procedure is applicable to the particular data, and, surchemore, whether it is appropriate to the problem under investigation. When the character of the data is such that a given statistical technique is is applicable, the result ill the application of that echnique to the data must be invalid.

Assuming that the raw data of criminological research are valid and that the products of statistical infraence from such data are also valid, we can now pass to the second condition involved in the interpretation of the findings. This second condition can be underwised only in the light of the specific problems by which these researches have been directed. The aim of triminological research is, as we have men, to differentiate classes of individuals. In order that the data obtained by invanigations may matirity this size, that is, he expands of being so interpreted that nawers to the specific questions of differentiation can be given, control or comparisons groups must always be employed.

⁴To understand these researches at will be measurer to distinguish between control groups and comparison groups. A control group on a group that is equited in an identification of options are included to another group on order to study the differences that then result for contens other against (summer/wiles) as readiles. It is not become dary that a question given makes the mediant in the mane amaker of comes as the neighbor group, other properties.

It is immificient, for instance, to complete an investigation in which a sampling of the criminal group is sheeved or measured for one or more factors, if we do not pessess similar knowledge with respect to a comparable group of non-criminals. Similarly, research which alone to differentiate one type of criminal from another falls unless comparable samplings of the classes of judviduals to be differentiated are studied. It is, therefore, clear that the data of research may be valid both observationally and statistically and yet be ineignificant in the sense that they are incapable of yielding any conclusions relevant to the problem which has directed the recercis. The insignificance of the data and the incorplusiveness of the research are one and the same thing. The failure to employ properly constituted control groups or properly selected comparison groups is a failure to satisfy the basic condition upon which the significance of the findings of these oriminological researches rests. The investigations which we shall examine in the enterguent section are criticised either for the failure to use any control or comparison groups or for various greers which attend the use of control and comparison groups.

It is to be noted that we have restricted our discussion of the conditions underlying the significant interpretation of the research fludings is a consideration of their ability to yield conclusions relaxant to the problems of diffusestiation. It is unnecessary to repeat here the further conditions which the re-

60 [ong as the general lease of its flustribation are observed. A queryol group is said to be defective when at family to question on our owner relievant variables associated to the constant of the physical content of the

searches would have to setting in order that their studings shall report conclusions relevant to problems of sticlogy."

Failure to observe any of the foregoing methodological requirements, based spen the anture of the problems and the methods of criminological research, somet necessarily result in invalid data, and resides insignificant and incomeinsive the ampirical evidence which is offered as relevant. Where research has failed to observe those requirements it is not entirely worthless, but worthless only in the same that if has an arientific significance. It can be said here that none of the researches now to all examined sufficiently satisfies the minimum standards for valid and significant research.

We think that this will be apparent to anyone who undertakes an examination of the researches reported in the following section. While we have not summarized off the empirical studies in this field, the investigations which we do summaries are typical of the work and certainly include the best work which has been done. The following section, therefore, constitutes an adaquate, if not an exhaustive, survey of investigations which, for the reason already given, are classified as studies of the connection ill orders.

We present this summary for two reseases. First, as far as we know, researcher in this field have nowhere been adequably summarised and analysed. Hereond, in no other way can the inadequacy of criminological research has not yet achieved a single admitte conclusion and that its other lack of significance is due to defects either in the planning or the execution of the researches. We offer the following summary as the evidence upon which our judgment is based. The researches examine the evidence for hintself and make as independent estimate if he cares to do so. However, he should appeared the generatory with the cares to do so. However, he should appeared the generatory with the cares to do so, the latter of the cares to do so, the care to the care of complexed diagrams and charts which accompany a text for illustrative purposes, the significance of which cannot be seen at a glusco but only after extertal study. The reader who does not care to make that effect may proceed.

[†]See Chapter IV, supra.

immediately in the fixird section of this chapter in which we endeavor to measurable the major defects in methodology which have prevented these studies from achieving either valid or significant results.

Section 2. A Survey of Hospitical Studies of the Causes of Crime.

We shall present these researches in five groups, each consisting of investigations carried on in one of the methodologically distinctive manners described above.⁵

- L Researches by the test method.
- Bassarches by the psychological use of the case history mathed.
- III. Becausehes by the esciological use of the case history method.
- IV. Researches by the cruous method.
 - V. Researches by two or more methods.

Where the number of researches is anticiout to render it feasible, sath group will these be turcher subdivided in terms of more or less genaral problems to which the method has been applied. We shall, for example, is our discussion of researches by the test method distinguish investigations of the relation of intelligence and mental defect to criminality, investigations of the relation of physical traits to criminality, investigations of the relation of physical traits to criminality, in estigations of the relation of of the relation of general problem of character and imperatuent to criminality. In this way we shall in some cause be able to consider together all investigations of the same general problem by the summerical. However, it is important to hour in mired that the same problem may have been investigated by different methods and to most the corum waterscent that occur is each cause.

The combinatory use of medicals is groups more prevalent from our list of researches might seep at first glaune in militain. However, where force is only all pick the oil alternative medicals in a expected quench, that research has produced been become the control of the cont

I. REMARCHIN (2015) OPEN BY THE TEST MERCHIN.

These investigations can be ambilitided into four groups:

- (1) The relationship between physical traits and criminality.
- (2) The relationship between kinds and degrees of intelligence and criminality.
- (3) The relationship between traits of character and temperament and criminality.
- (4) The relationship between grades of intelligence and different types of criminality.

(1) The relationship between physical trults and criminality.

(a) Because of its bisterical eigeificance, mention must be made of the work of Lombreso." As is well known, Lombreso thought that by measurement and impection he had discovered a positive relationship between a number of physical traits and criminality. The role of measurement or precise anthropometry was, particularly to his later writings," made subsidiary to that of observation, or the seatomico-pathelogical method, which involved the detection of certain physical enomalies, such as asymmetrical cranium, long lower jew and opistanding cars, as stigmate of degameracy. The physical traits which he employed as indices of eriminality were not, however, causes of criminality. The cause Was an inhorn degenerate constitution and the various stigmans. were the correlates of hereditary moral imbedity.11 Lombroso worked largely with criminals, however, and failed to make any adequate comparisons with non-criminals. Consequently his re-Ports of the high Incidence of certain physical defects among

[&]quot;L'acuse delargueste, (da ed., Tormes Franchi Busse, 1866,

¹⁰Ser purhenhrly C. Lambons and E. G. Ferrore, La donn. delinquents. Ind. ad., Tormo L. Reur e C., 1994.

If the first the court of the whole Londmann held that degeneracy and atervism were emportant factors at grammaling, the ded and cleans that they were the only determining factors. In has their work, particularity, to be del that degeneracy world determining factors at the court of the cour

criminals are incurclasive both for that reason and because of the unreliability of his non-metrical observations.²⁸

- (b) Gelet¹⁵ compared the ears of 200 criminals and non-criminals. The criminals showed a slightly higher proportion of degenerative defects than the non-criminal group.
- (c) Verracchth compared the height of a group of over 200 Belgian prisoners with similar measurements for the Belgian army. The prisoners tanded to be somewhat taller than the noldiers. 33% of the soldiers were rated as very tall.

A number of investigators have attempted to correlate endocrine disturbances with criminality.

- (d) After the szamination of 20,000 convicts, M. G. Schlapp¹⁴ suspected that over one-third of them suffered from glandular imbalance.
- (a) W. Timme's examined 25 'lifers' in a New York prison, and found that 26 were glandeler 'types.'
- (f) R. A. Reynolds³⁰ reported that all the numbers in Han Quantin at the date of his investigation had abnormal thyroids.
- (g) After the clinical and psychometric aximization of some 500 delinqueurs, L. Girimbergi² attributed their delinqueury to emotional defect caused by an arganic inferiority expressed in harditary endocrine imbalance.

¹Price findings of hims noverlagations, paragraphy Garrag, (see p. 130 ft, helps) that the successor of fitne delects at no higher in one-crammal Yant in critically cognitions, thus how required in proof of the revolution of London arrival position, the position, too, in incompatible with current findings as psychology and greetles.

Mileparted in La latte molecus contre le come Brundler: F. Larcer, 1930, p. 77.

¹⁹⁹⁷ Engelbach, Craminology no related to enducrinology III Med. J., 1998, 50, 24-32; S. J. Medrin, Relations of particular figuring gland in creamology. Med. Rec., 1991, 59, 438-439. See also T. Selbin, A may plants of creminal authoropology in Italy. Annals Am. Acad. Pol. and Soc. Science, 1808, 185, 231-342.

¹⁴Behavor and ghard discuss: J. Florad, 1994, 15, 3-17. See else M. G. Schlapp and E. H. Senth, The new communing: New York, Bunk and Lascrapht, 1998, 37Quated in New York World, May 10, 1994.

¹⁵Quoted in Americant Press depatch, February 9, 1930.

¹⁹ Empliet, and definitiony. Here York: Breatism's, 1928, pp. 146-147.

In a study of 250 shult criminals L. Berman's found from two to three times as much endocrine disturbance as in a group of 280 non-criminals of the same ago. He attained substantially the same results when he compared 196 juvenile dalinquents with a control of 256 well and healthy adolancesh. The pituinary deficients constituted 395 of the juvenile deliaguent group and constated If the perennial thieres, precessions hobors and habitual likes; the parathyreid deficients constituted 39% and consisted of those brought (see) for impulsive saments and tambility to learn normal social inhibitions; the thywan-adrenal dysfunctionals constituted 19% and consisted of the percent and arbitrionate; and the thyroid-disturbed constituted 39% and consisted of the emodonal hysterics with uncontrolleble tempers. The author also lais the types of endocrine imbuluace found consistent with nine saturnist group of grines.

The value of such work is negligible because of the unreliability of anticerinological diagnosis, and the absence of control groups in terms of which glandeler soremality must be standardized.

- (2) The relationship between binds and degrees of intelligence and oriminality.
- (a) In 1921 E. H. Goddard⁴ examined 236 cases from an Ohio juvenile court and found 38% feebleminded. He had earlier estimated that from 25% to 56% of the immetes of penitontiaries and retormatories are feebleminded.²⁵
- (b) M. R. Fernald²⁸ tested 100 insector iii the Bodford Hills Beformatory for Wessen and found 43% feedlessinded.²⁴

[&]quot;Creek and the endecron ghods. Minutesint, 1931.

Pi Joveniu delinquisse: New York: Dodd, Mend and Co., 1988, pp. \$3-54 "Feeble-meticleus et cover and commentees. New York: Use Macmillan Co., 1914, p. 7, and Roll. Am. Acad. Med., 1914, 15, 195-122

MPractical applications of proviology to the positions of a closing betwee. J. Cran. Law and Cramsol, 1917, 2, 222-731.

³⁴Tim was on the Stanford Economic of the Samor-Baset bot. An interesting distriction of the descriptint Square for field-an-induces that can be obtained by safety various standards as green on page 725, where precessings ranging from MS to 100% are crital.

- (c) H. M. Adler" reports that of a group of \$77 delinquents tested at the St. Charles State Training School, \$1.5 were found. to be fashleminded.
- (d) J. De Lea House gave an intelligence test to the inmutes of the reformatory school at Hunares, Spain, and found 20% mb-MOTTHER.
- (a) M. G. Caldwell's reports, in a study of 463 delingment boys committed to the Wisconsin Industrial School, that approximately 65% had an I. Q. below 86" as raind on the Terman I. Q. interval. compared with 11% for Terman's son-delanguest group of 905 children. Various comparisons were also made between the intalligance of the delinquent group and that of groups of nondalling nant children of families requiring charitable aid (totalling 1.852 children) and 252 girl deline seets, as determined by other investigatore.
- (f) E. A. Lincoln²⁰ found only instrainment differences in the distribution of intelligence of 3,368 military prisoners III Fort Leavenworth and that of the million and one salf population examined by the army psychologists.
- (g) E. A. Doll's compared the distribution of intelligence of 838 inmates of the New Jersey State Prison with that of the army white draft. He concluded that when allowance was made for selective induspose on the busic of netionality and color (the prison aroup being half neare and foreign-born) the mental popstitution of the prison group as a whole corresponded very closely to the average intelligence of minit males of the State as a whole. His allowance for the influence of nationality and color was based

[&]quot;Teach annual report of the economical agest. (July 1, 1635 - June 31, 1987.) Depart-

[&]quot;Wheth annual report of the extensionages. Using 1, main-jum as, reer. J. august-ment of Public Wellter, 18.

"M. a preparing definientable to Empilia y a Beaures' 1819, to be Severies land, the Downer Craninol, 1928, 19, 207)

"The empilipance of definition for the committee of Waycomain Infinistrial School."

J. Crem. Law and Christol, 1920, 28, 424-428

"Make of the public sold only provide the committee of 17 165 of the casts, which is the control of the control 191-197.

on estimates of undetermined validity rather than on procise statistical determinations.

- (h) G. P. Store²ⁿ made a comparative study of 309 inmates of the Indiana Reprinciply and 653 men of the United States Army; he found the average mental age of the army group to □ 13.4 and that of the Reformatory group to be 12.65.
- (1) Similarly, H. M. Adler and M. E. Worthington²⁴ found 27.7% of 5,462 Dilmole cases mentally defected as compared with 25% of an army dwaft group at 33,793. This windy also reported wide divergencies in the extent of mental definiency as between institution and institution and among various sections of the State of Dilmole.
- (1) C. Murchisse³⁰ made an elaborate statistical comparison of the intelligence of 3,942 prison famates with that of 45,922 selected cases from the draft army. He found the native white oriminal group to be superior to the white draft group ill alpha scores.
- (k) G. J. Mohr and R. H. Gundlach* working with approximately 350 prisoners at Joiet also found that the average intelligence of the prisoners was slightly superies to that of the Illiunia white draft as detarmined by the alpha test. They also found that the prisoners had higher average weight, weight and chest circumfarence than the arms grown.

Cartain general eriticianse can be made of all of this work. Even where controls have been made, their comparability in quasionable, and the technique of the comparison statistically crode. The prerequisities for a proper canized group are astronably difficult to meet, and subsess they are astimised the comparison is unitelliable. Second, the valuitity of various intelligence tests as measuring instruments is not beyond question. Mere coucial, however,

tery and 682 sar 236-237.

When scope of the purition of definitionary and creare as related to mental deficiency.

J. Pyrche-Asth., 1923, 30, 47-56.

**Craning intelligence. Westerner, Misses. Check Unsugarity, 2005, pp. 41-44.

^{*}A further study of the relation between plunings and performance in creatests.

J. Abs. and Gor. Possible, 1939, 50, 41, 35;

than either of these factors are the problems ruled in connection with the interpretation of lost source and the establishing of distinctions between normal intelligence and the various degrees of subnormal intelligence.

E. H. Sutherland's" examination of some 350 statics of the intelligence of American delinquent groups gives some indication of the variations in result that can be achieved where different favortigations adopt different standards of normality. The following table takes from this valuable survey gives a rough indication of the trend of diagnosis of feeblemindedness among delinquents and erhalmals since 1310.

PSYCHOMETRIC STUDIES OF DELINQUENTS BY PERIODS 1915-20;

Yours	Number of Student	Percentage Festilemanded 18. Median Study	Percentages Feeblemoded Jange
1910-14	50	61	4-98
1916-19	143	25	1-82
1890-24	, 104	\$11,	1-80
1995-96	48	20	9-58

The fact that intelligence tests have been standardized for large samplings of the population, has bet to attempts to interpret accuracy obtained by intelligence tests in terms of these tests although a few of the stadies have employed central groups. Thus, ill has been suggested that the mostess made by delinquents on the limit-limins test can be compared with Termane's norms for quasilected school children on the same test. When this was does, there was found an appreciably higher degree of feeblomindedness among the delinquent children than among the group of school children. However, the validity of this comparison is questionable since the school group would probably give a totally different distribution with respect to those occommic and social characteristics which are known to be related to the intelligence

^{**}Meetal deficiency and colons, chapter 15 of Social attitudes, ed. by Eliabell Young. New York: Heavy Hall and Co., 1991.

distribution. Elignificant comparisons can only be made of groups carefully consted for all relevant variables.10

It has also been augmented that the distribution of intelligence in the draft army farnishes a significal of comparison, on the ground that the draft army is a fuir margle of the general population. In view of the fact that 24% of the draft army have been estimated to be fechicaliseded, attadios which find 20% of the criminal group to be feebleminded cannot be said in be indicative of a high correlation between mental defect and criminal behavior.

Such attempts to interpret comparatively the scores obtained. by intalligance tasts administered to criminals have also been criticised in terms of the statistical assumptions which underly the norms for intelligence. If has generally been assumed that in the population at large the average I. Q. is 100 and the average mental are, 16. A number of in vestigators have maintained that these estimates are excessively high, and that the true figures are probably much lower. If this is the case the low intelligents often reported as having been discovered among oripinals may be partly due to the high standards employed by the testers. In view of this criticism a number of investigators have employed lower standards, thereby obtaining different results from the same test. If, in addition, it is remembered that careful investigators today base their diagnoses of feeblemindedness not only on verbal test scores but also on the result of a variety of other tests and on qualitative criteria, to it will readily be seen that no statisticulty reliable conclusions can be drawn from the incomparable

on Sec. pp. 105-104, supra "R. M. Verbet, Psychological d. of the National Academy of Socreet, Vol. XV Windowskin, Government Problem

and ambiguous indices of feeblewindedness among delinquents. and criminals which are vicided by studies such as these to which we have referred.

Rtudies have also been made of the relation between mechanical as opposed to verbal intelligence and delinquency.

- (1) M. R. Jessup," working with 139 boys from the Los Angeles Juvenile Court, found an excess of mechanical aptitude over verbal intelligence, these burs exceeding the Stenguist porms for New York school children in mechanical ability.
- (m) F. D. Daugherty," working with £14 boys and 108 girls from the same Court, likewise found an excess of mechanical ability over the established norms for unselected groups.
- (n) M. E. Adex¹⁰ serve the Stanford-Bloot to 410 delinousate and found their mean I. Q. to be 71.1. When the mental ages | his group were paired for the corresponding obropological ages on the Pintner-Patereon norms, the group ranked higher in performance. On the assumption that the Pintner-Paterson group were of normal verbal intelligence, this would seem to indicate a difference in the intelligence of delinquents when graded by verbal and by performance tests.

Two criticisms are to be made of these studies: first, that no direct comparison to made between the scores on the Stanguist mechanical ability test and those on the standard intelligence tests:4 and second, that the results of the Stongulat test given to California delinquents are not strictly comparable with the Stenquiet norms, since these sorms were established by giving the

of Preliminary report of a study of the maximum debity of folianquests topy of the Los Angeles Jerusale Cowel, 1986 J. Debum, 1985, 2, 395-116.

454, study of the succhimacul adoing of distanguest debitsum of the Los Angeles 145, and 145

test to New York school children. It is also likely that the norms need for the other feets are not entirely applicable to the dalinquent groups.

(3) Relationship between truits of character and temperament and oriminality.

Various test instruments have been countracted for measuring non-intellectual traits. A number of standard tests which purport to measure various personality traits have been employed in the study of delinquency, and individual investigators have constructed their own batteries of tests for various character traits.66

- (a) E. K. Bryant tested 100 beys of the Whittier State School of California by the Downey test and got a relatively high score in "assurance" and a relatively low acore in "resistance".
- (h) E. Wires's obtained similar results with a group of 67 delinquents in Detroit.
- (c) Later Pryant's made a comparative study of delinquents and non-delinquents by the Downey test and found that the dalinguents were inferior in speed of decision, coordination of impulses and somewhat in motor inhibition.

The significance of these three studies is difficult to estimate because of the doubtful validity of the test. Control groups were absent in the first two studies; and the control group that was simployed in the third was both too small and not strictly comparable, having been selected from the Berkeley High School.

(d) C. L. Weber and J. P. Guilford⁴⁰ stave tests to 86 prisoners in the men's reformatory at Lincoln, Kehraska, who had an aver-

^{***}C Larche has puede e careful study of the velolity of ton such patasyrey including the Prinsey X-O test, and has found than to be unsubstitutery as manuscul of emolymaticy or delanyared. We attempt on summer and substitutery as manuscul delanguary. Manuscryst, 1931 |

**The Very profile of delanguaries logs. J Delang, 1821, 6, 394-399 |

**The Downey will desoportunes and the particularly statutes of previous fields.

**The Downey and the profile of the delanguaries and the particular of th

⁴⁷ Delinquents and non-delinquents on the uniformarement test. I Deling, 1923.

^{**}Character trends russus mainti deficiency in the modifice of delegrancy. J. Crin. Live and Crussott, 1995, M. 6th 482. See also J. P. Godford, An attempted study of motional feedbacks in crussols. J. Alm. and See. Psychol., 1995, 21, 290-244.

- age intelligence higher than the army utaniard, and obtained somewhat lower news on the Framey X-U that for affectivity and somewhat higher nonces for idinguazany than the scores given in Pressay's norms. The latter comparison is of little significance, as the Francy norms were obtained from a very small group of college students^{to} and the test limit is at dublous validity. In this particular investigation, only 47 of the reptice could be used:
- (a) V. M. Cady²⁰ constructed a bettery of tests to measure moral traits, and gave them to TO Whittier School boys, an incorrigible public school group and a corrigible public school group, all of the same age. In general, his disting was that the incorrigible group gave higher indices of descioncy in the character traits studied than the good conduct group, and that the fallingmant group assessed both public school groups in these indices.²⁰
- (4) Relationship between degrees and binds of intelligence and carious types of criminality.
- (a) V. V. Andersonth found that the feebleminded constitute a large proportion of recidiviste, that \$6% to 40% of recidivists are feebleminded, but he did not give comparable percentages for non-recidivists.
 - (b) On the other hand, O. Murchigan is of the opinion that

MSet S. L. France, A group axis for scentigating the excitons. J. Abs., and Sec. Psychol., 1981, 36, 56-64.

First erinantion of invenile monreplicity J. Debug, Mannation of Jovenile monreplicity, J. Debug, AM. R. M. Martin (Prelimmany notes on a test of delargeant traderies J. Debug, 1928, 9, 222–229), A. S. Roubenbaumer (An experiment) richy of some behavior works of the potentially delargeant boy. Psychol History, 1923, S. Nu. S.), and H. M. J. Appl. Psychol., 1927, J. 1, 1-7) have also differentiated delargeant and non-challengest propose to some chart by seems of supercose chartest rich at Mitting the chartest beta frequently yourse fairly high reliability, it is unpossible to say precisely what thirty they manner. For final rich, it is unpossible to say precisely what thirty they manner. For final rich, it is unpossible to say precisely what thirty they manner. For final rich, they may could be proved the precise of supercise of pre-delificated tradescept. J. Debug, 1925, 3, 124-139) points on they may possibly be fromit in the old same synchrotic value as obstocking pre-delification front about part of the parameter and the type warmants medicateworks.

⁵⁶Fublanindatness as seen in court. Mest. Hygens, 1907, 2, 200-265.
⁵⁶Cristical intelligences. Wasserier, Man. * Cherk Discounty, 1906, pp. 75-71.

racidivists are on the average more intelligent than first affendate. bt

- (c) P. C. Shruhmi" found that 51.8% of a group of defective boys and 74.8% of a group of non-defective boys had stolen; and that 18.4% of a group III defective girls and 34.4% of a group of non-defective girls had stolen."
- (d) A survey of 1,288 immates of county jails and penitantiaries in New York in 1922 showed that of these arrested pace. 5.8% were mentally deficient; of those arrested twice, 9.9%; of those arrested three times. RS%: of these arrested four or more times, 6.7%." These percentages do not indicate any relationskip between mental deficiency and recidivism. The variable officloudy with which mentally deficient cases are committed to special institutions may have had a great influence in determining these percentages.
- (a) E. M. Biddle³⁰ studied 435 children, of whom 190 were known to steal, 68 were known not to steal and 177 had no needour record of stealing. 34% of the children known not to steal. 47% of the children known to steal (a much larger group) and 58% of the group in which the presence of steeling was undetermined, had I. O.'s under 70.
- (f) E. H. Sutherland analysed the reports of Auburn State Prison, New York, from 1821 to 1996, and found that 52% of all

WA delect in comparation between receivings and first offerders in that taking if the first offerders in the becomes reactioning. The spectralings of reactivities than been estimated to be as high in 29%; It is often that by proceive of any minimization to the other control of the control o

^{**}Deimquency and number defect. Heat. J. Mad. Psychol., 1921, 3, 179-10.

W) E. W. Willin (Definitioning and independent and in Herit Hypinit, Pl. 1, 32 and 1 an

¹⁷Report of a small largeste sweap of Run Turk county jude and parientiaries, with recommendations. New York: Rutional Committee for Mental Hygiens, 1926.

^{*}Stealing as a form of aggressive beloping. J. Alba, and Soc. Psychol., 1927, 22, 40-51.

[&]quot;Most dilday ad obs.

those who entered the institution in this period were diagnosed as feebleminded, and that \$1.% of these who were punished for institutional deliverencies in the same period were so discussed.

A number of investigators have reported differences in aver age intelligence or differences in the preportion of feeblemindedness among various classes of offendans. While, according to most of their reports, individuals convicted of embesslement or frand tend to exhibit a higher intelligence then other priminal groups, no consistant differences have been found in the comparative intelligence of other charge of offerders."

A difficulty common to all the researches employing the test method has been their fullure to take account of the possible haterogeneity of the factors which are measured by the various tests. In the case of intelligence, for example, C. Brigham's has pointed out the invalidity of group comparisons which ignore the diversity of independent traits measured by the intelligence tests. The concept of intelligence seems to include a number of separate traits such as verbal ability, numerical ability and memory. The intelligence tests may fail to differentiate delinquent from nondelinquent groupe either because delinquents and non-delinquents do not in fact differ with respect to these traits or because the differences are not revealed by the intelligence auctiont. Individuals with the same intelligence quotient may differ significantly with respect to one or more of the traits into which the content of intelligence can be suclysed. This may also be true of the other tests that are used to measure traits of temperament. character and mechanical antitude. Thus, even if the researches which we have considered were otherwise unimposchable, it would

^{**}Sen Morrchicon, Krifacon, Rant, (sulpu, yp 116, 146). See almo Ruport of a mental legiptor nevery of New York county mains and yaufhumineds, p 12 or the relation for the control of the testine, particularly of the relation for the control of the testine, particularly of the relation for the relation of the relation

[&]quot;Mutchigners tests of samageset groups. Psychol. Rev., 1934, 27, 193-165. See also T. L. Kelley, Crearmade in the small of man, Stanford University, Calefornia: Stanford University Press, 1988, C. Spensons, The abilities of man. New York: The Mannillag. Co., 1987.

be impossible to interpret their results with any degree of preciwinn.

II. RESILLERS CONSUCTED BY THE PHYCHOLOGICAL DAR OF THE CARD BURTORY MINTERED.

Work of this type has consisted largely of two types of inyestigation: (1) the examination of biographies of offendary in order to guin insight into their motivating psychological machanisms and (2) the study of the frequency of personality types in crimical or delingment populations and, less often, in non-criminul or non-delinquent populations. Although work of the first type, the qualitative study of case bistories, has produced a great deal of suggestive material, it has been confronted by two major difficulties. In the first place, the items selected as relevant in a given biography are influenced to a considerable extent by the prayious training of the investigator. Furthermore, the relationships among factors that appear eignificant to one investigator are considered insignificant by another. Difficulties such as these are typical of all observational work. They are especially prevalent in the phearystien of such subtle and little understood factors as feelings, attitudes and emotions; and they can be obviated only by the adoption of a precisely defined and logically consistent terminology. The intensive study of a great many cases has prorided concents which might well be employed to direct more turnful empirical research in the future."

##379; most comprehenses set of concepts to that of papelocamly pa. [See F. Alexander, Mental Syrpese and extensioney Metes. Hygenes, 1990, 14; 833-882.

**Alexander and B. Stinch. The crassoul and he profee. "Vorana. Interest. Pyrdinan. Variag., 1992.) Frychomolytic concepts, as addition to their man by perchandran. Variag. See S. Francisco, 1992. Frychomolytic concepts, as addition to their man by perchandrance of the variant statement of the professional set. The professional concepts of the professional set. The professional set of the professional set. The professional set of the professional set of the professional set of the professional set. The professional set of particular set. The profession of psychopathology of exhibitonam. Psychonial Rev., 1994, 13, 64-89; for professional set. Professional Sec., 1995, 19, 195-25; Psychopathology of exhibitonam. Psychonial Rev., 1994, 13, 64-89; for professional set., 1994,

A number of stadios of the second kind, the incidence of various psychological types in the criminal psychetics, have appeared. It will be sufficient to notice a few of the more interesting of them.

- (a) M. El Covert²⁰ examined 100 unselected juvenila delinque to public achool chilires in Beim, Sampa anna and Rakerdeld, 37% of the delinquents, 7% of the Beim group, 21.5% of the Santa Anna group, and 7.2% of the Beim group, was rated as excitable. The median intelligence quotient for the excitable children appeared to be about the same as that for the nonexcitable children. Tammech as methalitity was defined as "an emolicust state characterised by less or weakening of inhibitory control such that some form of irregular conduct results", the factor of delinquent behavior might well have influenced the excitability retines.
- (b) V. V. Anderson²⁶ reports that of some 4,660 delinquents studied in one state, 50% were eaffering from some abnormal newtons or meant condition, and that this fashing is in accord with the results of stadies in other states. In another of his numerous studies, he found that \$1.5% of a group of 157 jursuits addinguents were psychopathic, as compared with 2.7% III some 4,000 subcol children in Cincinnati who were psychopathic or propaydropathic. Estherians⁴⁷ has pointed out that these proportions are probably not typical because of the samin number and selected character of the delinquent group and tourins the school children and the delinquents were not annumined by the same method.

staborate case histories without, houseour, making any statistical are of his date. He opensus can be briefly associational (1) full common with the common of manufactural products of the contract or participation; (3) the contracts type if roughly advantal such the quant of under and the physical participation of the contract type if roughly advantal such the quant of under and the physical participation of the habitest commonly.

^{*}Exceptility in delinquest boys. J Dehng, 1928, 5, 221-239.

^{*}Medical and psychopathic approach to the deliminant publics. J. Crim. Law and Crammol, 1921, 12, 404-408.

[&]quot;Report of the mental laggious survey of Communit. More York: Westernal Comnition for Mental Regions, 1922.
"Criscondings. Publ., J. R. Liggmont, 2004, p. 152.

- (c) A. L. Jacoby examined 1,184 individuals referred to the psychopathic clinic of the Recorder's Court, Detroit, and found 263 mentally submormal, 121 income, 684 atnormal but not insure, and 204 normal. The invalidating feature in this, as in a number of gimilar studies of his," is that his data are derived from groups not homogeneous with the general criminal population. Court cases are usually not referred to clinics unless they are susnected of abnormality.
- (d) F. H. Allen's concluded from an amilysis of the case histories 57 60 children caught steeling that is almost 50% of the cases their antisocial activity was an attempt to compensate for a sense of inferiority.
- (a) R. H. Bryant's reports I studies, covering 1,365 oriminals. In this group \$1% of the cusus were classified as psychopathic personalities.
- (f) The National Committee for Montal Hygiene's reports mental abnormality in 59% of 608 Sing cases; in 70.6% of 3,451 Texas penitentiary cases, and in \$5.8% of \$26 Texas county tail cases; lo 58% of 502 New York notice department cases and in 48% of 781 New York Juvenile Court cases; and in 48% of 1,000 Hoston Municipal Court cases.

A number of studies have also been made of the relation between a type of abasemality and criminal behavior, or the relation between abnormality and a type of criminal behavior.15

(g) Among the most interesting of these is the study of B. Gineck. 4 He found that of 608 consecutive entrunts to Sing

The parehousing class is a coming quet. J. Am. Julicature Soc., 1921, J. Al-25.

**Operiopium y syrubium of the Miney. Mapet. Elegisma. 1919. 3, 503-508. For similar reports of the durit firstees of types of sincerunities sources defoundantly and cristatists. Programs of the durit firstees of types of sincerunities sources defoundantly and cristatists. Communication of the Cerumologium Service of Public Wellinger, State of Hinnes 1956-1950 of the Cerumologium Laparines of Public Wellinger, State of Hinnes 1956-1950. Welling the Cerumologium Services of Service 1956-1950. Welling the Cerumologium Services of Service 1956-1950. Services of Services 1956-1950. Services of Services 1956-1950. Services of Services 1956-1950. Services 1956-195

Hing 60.8%, were recitivists, while of the 31 mative hore psychopathic cause included in this group S0.8% were recidivists.

(h) In a similar study L. Rabinowicz found that while 53.2% of 1,000 unrelected cases in the prince at Forest, Belgium, were abnormal, 67.4% of the 488 racidivists included in the Forest group were abnormal. He also found that 63% of 100 cases in the Central Prison at Louvain, whose offences were more serious than those of the Forest groups, and 87% of a group of 59 recidivists included in the Loursin group, were absormed. The significance of these figures is lessened by several factors. First, comparison of the recicivist groups with the larger groups of which they form a part is obviously an forpt way of displaying comparigone between the recidivist and non-recidivist groups. Becond, the abnormal group included a large percentage of cases diagnosed as constitutionally immoral, a classification probably influenced by the incidence of criminality among, and the gravity and frequency of the offence committed by, the persons diagnosed. Third, since the percentage of non-recidivists who will later become recidivists is unknown, fret offendere cannot be considered as an adequate control for recidivious

The significance of studies of abnormality in criminals is primarily conditioned upon similar endine of control groups and the reliability of the chasifications are most freeposity in terms of abnormality. Abnormality itself is a rather losse turn which may be taken to include the organic and functional psychopathy, Constitutional psychopathy is an ill-defined and very little understood concept and has low reliability as a diagnostic criterion. That the reliability of most of the other psychiatric categories is also low, is suggested by the work of E. B. Wilson and J. Deruing, who found that when 973 cases were classified in one hospital und that reclassified, there was

Fig. both moderns control in crums. Remedies P. Luccer, 1900, pp. 153, 154, 214.
**NStatutesi companion of Specialized diagnosis is a come Massochusette State Hoopstale design Bibl. Quer Bull. Minn. Digt. Mort. Dvs. 1527, 11.

only 78% agreement in the diagnosis of dementia process. This figure is surprisingly low transmuch as dementia practor is con-sidered a relatively clearly defined psychosis and the two classifications had some influence on each other. A further crucial difficulty has arisen from the fact that most of the abnormality classifications are partially defined in terms of the incidence of criminal behavior. This is particularly true of the category of psychopathic personality or constitutional psychopathic inferiority since criminalism is one of the symptoms that define this class. Wherever this is the case, it is obvious that results indicating a large percentage of abnormality among criminals, or certain classes of criminals, or showing a targer percentage of abnormality in delinquent then in non-delinquent groups cannot be regarded as exhibiting any other then a courious relationship, no matter how excellent the evidence may be otherwise. The diagportic classification must necessarily be made independent of the factor of oriminality.

The researches set forth in this section indicate how disproportionate has been the amount of speculation and opinion in this field as compared with the valid and significant indings. There remain neaseons problems which have sever been investigated; and those which have been studied remain ansolved. Even were it assumed that research, such as that which we have survayed, has resulted in valid indices of the nature and extent of mental and emotional abnormalities in the criminal population, it would still be difficult to interpret them significantly in the absence of harwledge of the mature and prevalence of identical shormalities in the research proposition.

ILL. RESPECTED CONDUCTED BY THE ROCKLEGICAL USE OF THE CASE HISTORY REPORTS.

Research of this kind, as conducted both by paychologists and sociologists, has for the most part conducted of examinations of the biographies of delinquents or exhains for the purpose of obtaining information about various environmental factors which may have infinenced their helpsylor. The largest class of researches employing the sociological use of the case history method deals with the environmental factors involved in the domestic situation. One would expect this to be so in view of the great emphasis that psychology has placed in recent years ppour the home as the developmental hechground of adelescent and adult behavior. A number of studies have confined themselves largely to factors in the home situation.

- (a) Having examined the case histories of 800 delinquents in the Los Angeles city schools, R. B. Fowler" reports broken and unsettled homes, lack of parcutal control, poverty, and wealth (ato) as the "major causes" of their delinquency. She points out that poverty may have various consequences, each of which may have an independent cancel canaction with the occurrence of crime, shiftlesquess of parents, the fact that both navents must work and therefore needect their children, or that the children may be forced to do hard work too early.
- (b) B. Dahletron stimeted the number of delinquents coming from broken homes et 50%. Either eas or both parents III more than 50% of the delinquest children were sicoholic,
- (c) W. F. Lerens studied some 500 ex-cetvice men in panal institutions. 50% came from broken homes in their childhood.
- (d) K. M. B. Bridges" studied 164 delinquents at the Boys Farm, Shawbridge. He estimated that 60% came from broken humas " the absence of the father was more frequent than that of the mother.
- (e) E. L. May" reports that of 2,000 criminals, 86% came from broken homes and 64% were manurated. His group is fildefined and no control figures are cited.

To Vivilia.

"Delinquency and the overafitim. Ment. His "Parkers contributing to inscende delinque 1972, 17, 531-500."

"Broken home: means the aspectation of the perceits, for whetever c means of cases and attackers. J. Delwa, 1977, 13, 279-283.

(f) F. G. Bunner²⁰ compared the community of a delinquent and a loss-delinquent group. Of 200 delinquent school boys, the fathers of 20% were dead; of 235 public school boys, the fathers of 8% were dead; of 78 delinquent girks, the fathers of 63% were dead; of 236 public achool girls, the fathers of 65% were dead.

Other studies. have presented data in regard to the sconmite status of the bone, the identity of the mining parent, the cause of the separation of the parents, the authorsity of the parents, the number of other offenders in the fumily, and the like. The most crusistent inding appears to be the presence in dalinquest groups of large percentages of children from broken homes and of foreign-born parentage. If these studies, again, lack of adquate control figures melves it difficult to estimate the algorithmate of these factors.

(g) C. Burt¹⁰ studied 115 English prostitutes and found that only 7.1% came from really poor homes, while 30.1% came from comfortable fausities. But here, toe, no control group was employed and the economic aspects of the cartreament lacked precise definition. Other studies have been made of the previous occupation and home life of prestitutes, but they are all similarly recombinates.

^{**}Clerified Remember Survey School work and space time. Clerehad The Stricky Committee of the Coverhau Functions, 1948, pp. 12-33

survey Committee or the Coverment covers New York Altred A. Karyst, 1530; **S. and R. T. Ghack, NO extramed covers New York Altred A. Karyst, 1530; W. Hady and A. F. Breumer, DeSuspensis and extramelly. New York, The Missoulible Vo., 1526; Sub-coverment or Cramer and Effects of Crave, Front Transity to extract Albusy: The Cramer Commission of New York, State, 1960; S. P. Brechnardge and L. Abdor, The descapent childs and the Joseph State, 1960; S. P. Brechnardge and L. Abdor, The descapent child and the Joseph State, State, 1960; S. P. Brechnardge Martinet Sprander, Foundation, 1865; Sentence, and others in shallor form coverma a work range of spender house, him distortances recognizing groups of fonce from networking locations.

WCame of sec-derivatives or gets. Bindle and Haupee. 1925, J. 233-271 wiSee Ferrand, Mayes and Bineley, upter p. MS, Entinerme B. Davia, A study of provincing committed from New York: Cay, in the State References for Women at Bellord Hills. Supplementary daughter as Campa J. Emediated, Commercealized presistents in New York: Cay. Bios. Yank. The Cantary Co. 1925.

IV. REMANSIER CHERESTON BY THE CHERE RESIDENCE.

These investigations can be subdivided into the following groups:

- The relation between domestic or familial factors and criminality.
- (2) The relation between various occurrence factors and criminality.
- (8) The relation between also bolium and drug addiction and criminality.
- (4) The relation between the specific characteristics of a community and crimbulity.
- (1) The relation between democratic or familial factors and oriminality.
- (a) E. E. Shideles³² theorem of rom a consus of 7,500 delinguants in industrial schools in 31 states that 55.7% came from broken homes. He effered as a comparative figure an estimate based on the 1910 crosse, that 25.3% of the total child population came from broken homes.
- (b) C. Owings* reports that out of 255 cases which appeared before the Tribunal pour Hajonia of Paris, 189 came from broken aggres.

What we have already probled out, the comme notified is a consignation, and often a manufact represent, of them already probleved used managed and transport than a factor of the second of the second

We are by denote gration and the determination in the United States. J. Crim. Law and Crimently, 1918, 5, 789-732.
What tribund were commiss. Paris: Les Presses Universitation de France. 1923.

P (4)

- (e) G. M. Wilson²⁶ needs a study of 630 adminisions to the New Jersey State Home for Boys in 1924-1925 and found that 122 or 20% came from broken homes; the nearest comparable estimate he presents is that derived from the survey of 10,000 cases in seven juvesile courts made by the Children's Bureau at Washington. Of the latter cases 40% were found to come from hoten homes.
- (d) The United States Comes Bureau^{ac} estimates, for the year 1823, the proportion of juvenile delinquesis coming from broken homes at 45%.

While control groups were employed in the following studies, their use of them is characterized by a failure to equate relevant variables, particularly socio-economic states.**

- (a) S. B. Croeby⁵⁰ found that of \$1.6 beys appearing before the Alamada county juvesile court in 1936, 46.5% came from broken homes. Who estimated from the 1930 occurs of Alamada county that 26.2% of the total population came from broken homes. The astimate based upon the comme was not a comparable one since % took accessed only of separations due to death or divorce, and ignored separations for other reasons.
- (2) The United States Censes Barean⁵⁶ has published a report containing a good deal of information in regard to the characteristics of 19.00 persons who were committed to state and federal panal institutions during the first six months of 1923. Compatisons are made with various consumentimeter for the general population. White in 1920 51.4% of the general population. Bred in urban and 48.6% in rural districts, 77.9% if the prison.

WAdoparings of trustment to came in male juvania delimpancy. J. Crin. Lew had Crimbed, 1927, 38, 207-217.

**Department of Commerce, Bureau of the Camera, Cristian under institutional care, 1922. Westergeton Government Prophage Office, 1927.

CATE, 1923. Washington Coperations Printing Claims, 882.

**The store concean or perturbat to show which purport to show the disproportionate maniber of segme diffusion to the general mayor apparatus.

WA starty of Alasseda corosty deleganar burn, with special ampinals upon the group coming from broken houses, J. Jim. Rop., 1989, 13, 228-230. **Department of Commerce, Barrom of the Comm., The prisonne's authoritetic. Washington. Commencest Printing Office, 1989.

group were haprisened for crimes committed in urban, and only 22.2% for eximes committed in rural, auxilians. As regards edurational background, it was estimated that the ratio of commitments per 100,000 of the adult population was 42.7 for the illiterate as aminut 27.3 for those able to read and write; and that the ratio of prisoners with a college education was 14.8 per 100,000, this being the lowest for the literate group. With regard to economic status it was found that the weekly earnings of the prisoners were not materially lower than the sarnings of persons cainfully employed in manufacturing. Recidivism was frequent. 50.5% of those in prisons and reformatories and 46.6% of those in falls and workhouses had previously been imprisoned one or more times. The ratio of commitments for divorced prisoners per 100,000 of the general population was 281.9 for males and \$4.1 for females, as contrasted with a total commitment ratio of 48.4 for males and 3.4 for females. Taking the divorced prinoners by sex and five year age groups, the highest ratio, 649, was found for males between 20 and 24 years of ass. 16

While these figures deserve attention because of the great populations studied, they are of relatively little significance because comparisons are made with groups of the general population which are not comparable for each factors an age, economic status, geographical location and the like. In addition, the figures for the general population are frequently rether rough estimates which are not comparable in accuracy with the data regiaxing the prison group. Their significance is diminished also by the fact that since commitments are an unreliable indust of criminality, the prison group may not have been a fair sampling of the criminal population.

Wit is probable that a large number of the decrees a prisonment of the crustality of the procures. It is there as to the significance of decrees from these figures.

and the injurious of the Control of the type may be fested in Department of Commercy, Bernard of the Control, Processor, 1922 Westermeins. Government Franklich (1920), 1924 (Commercy, Bernard of the Control, Princeton at India, 1924), 1924 (Control of the Control of the Contr

Home of the studies reported bear upon alightly different asweeks of the domestic situation.

- (a) One estimated that more than 20% of the male prisoners. and more than 43% of the female Bristness committed to state and federal reformatories in 1952 were not living with their modern in the time of the commission of their criters."
- (h) The United States Cosess of 1910th gives figures indicating that there were then twice as many foreign born as native horn whites in prince in properties to their respective numbers in the population. It enalises this eisterest by pointing out a number of factors which minimize the significance of these figures. At the time of the census only 5.7% of the foreign-born white population were under 15 years of age, as contrasted with 98.6% of the native-born; when offenders in the two groups 15 years of are and over are compared, it is discovered that the foreign-horn had only 1.8 instead of 2 times as many commitments as the nativeborn. Furthermore, the immigrante lived for the most part in the large cities, and it is indicated that the urban crime rate is higher than that of the general population. As a matter of fact, later studies have shown that the native whiten have higher crims rutes than the foreign-born. In some localities and under some conditions, the rate is twice as high."
- (3) The relation between perious escapede factors and priminality.
- (a) W. A. Bonner¹⁶ reports a number of comparisons of various price series and series of crimicality indices made by

[&]quot;Destribues of Commerce Busins of the Consul. The ormater's substitution

^{**}Department of Commune, Bureau of the Comm, Pressure and jovenile to-larguests in the Under States, 1900 Washington, Government Printing Office,

When Sotherland, Cransvelope, p. 68.

20 Crimensky and consessor combines. Trans. by H. F. Horton, Borion Little, Prove, and Co., 1915. See appendixly Fant 1, Co. 2 and Part 2, Ch. 2. Tray worth contains an encolator review of the ordiner intensives on the said-one. Deformance of the Harriston was to be finant in M. Parswelle, Crainfology. New York: The Manuslam Co., 1958, C. 6, and D. S. Thomas, Social aspects of the Institute species. Limitation: G. Zominings & Sam, 1855.

himself and other investigators. Their technique, at its best, was to plot criminality curves and economic indices and compare the two by direct inspections. Ranger cancinated that "the part played by economic conditions in criminality is preponderant, even decisive." B. Branch^{tto} and D. S. Thomas^{tot} have pointed out that the conclusions which he reports are not warpanted by the cridence he has set Parth.

- (b) G. B. Devises³⁰⁰ obtained a coefficient of correlation of -43 ** 1.3 between the number of adminions to the New Yark State Prisons and wholesale prison for the period 1995 to 1915. D. S. Thomas has pointed out that this period is too short to make it possible to secure a reliable correlation. It should also be noted that the rate of prison admissions taken alone is an unreliable index of triminality. The applicability of the technique of accumulation to these state is uncellegable.
- (e) W. B. Ogbure and D. S. Thomas²⁶ took the unweighted average of nine seconomic indices, failing within the pures 1870-1880, and correlated them with the number of convictions for sviminal offences in New York State for the same period. They obtained a reafficient of correlation of -36 ±08. The record of convictions was incomplete and, in addition, interior as an inlice of oriminality to the indices by which accessoric conditions were measured.
- (d) Probably the ment alabarate and carefully executed statical study of censon figures bearing upon the relation between economic conditions and criminality in the later research of D. S. Thomas.³⁸⁸ It is sufficient here to record her conclusion that the anguitre oscillicients of correlation the obtained between the business cycle (bused on an elaborate series of indices of seconomic conditions) and various crime rates in Great Stitain.

¹⁰¹ The elements of cross. How York Onited University Press, 1937, pp. 81-47.

¹⁹⁸⁵ colal topects of the business cycle. Quee, I Univ 2f. D. 1922, 12, 107-121. 1985 colal topects of the business cycle. Quee, II Univ 2f. D. 1922, 12, 107-121. 1990; the influence of the humans cycle on carbon normal conditions. Am. Shalla-

Scal Aspec, 1922, 16, 324-340 19 Social aspects of the lumbers spele, pp. 125-101.

and Wales were on the whole not high enough to give clear oridence of any strong connection between the two, although the statistical procedure is only justified by an a priori gamunition of some relation between economic conditions and criminally. The The only exception is in the case of violent effences against property (burglary, house and shop-breaking, and robbury). For the whole period studied, 1887-1913, the maximum coefficient, —44, occurred with sprachemous itsus, and a moderate coeffcient, —37 with items lagging one year. The constancy of these coefficients and the fact that they were always high ecough to a significant, is some withouse of a real relationship between this class of crimes and the business cycle,—a definite tendency to increase in a husiness degression and to decrease with prosperity.

(c) H. A. Phalpa¹⁰⁶ obtained powerly indices for the city of Providence for the parts 1806-1828, based on the combined records of indoor and authors relief, and correlated them with the crima rates of the Euperice Court of the two meet populous counties in Rioda Irland for the same period. He obtained a coefficient of correlation of +.38 between powerly and the total amount of trime. He also obtained a number of other coefficients between specific classes of crime and indoor relief, outdoor relief, and the powerty index based on their combination. These tands to be lower. Phoips does not state the reliability of his coefficients. His powerty index appears to be inferior to the combined indices employed by Thomass we measures of the business critic.

Although the indices employed as measures of secondic conditions are still the subject of dispute among economists, these

¹⁰⁰Communiting on key own work, Distrollay Thomass within "In my skedy of the social aspects of the brameres cycle, my anis with the per an objective suggested of the brameres cycle, my anis with the per an objective suggested of the religiously), between the cyclesial suggested, as a special control of the religiously between the cyclesial suggested, as important part in the second of a priori religiously plantagement sufficient beautiful bumper to embrous." And the goes on to say that the series of nortal plantaneous which also studied "series over the goes on to say that the series of nortal plantaneous which also studied "series over the goes on the y series bear controlled to the period of their ways no hadependent evidence that would limit in an authoration of a relationship. (This independent reference that would limit in an authoration of a relationship. (This independent reference, then a proving and madelyness north.) Statistics in recent research. Ann. J. Second., 1980, 25, 147.

studies suffer much more from a lack of adequate indices of criminality. It is known that the crime indices which they employ are indicenced by such accidental circumstances us the efficiency of law antercoment agencies and changes in penal administration and police afficiency. The number of crimes reported to the police in generally regarded as a soor reliable index of crime activity than the number of arrests, convictions, or commissionals.

(f) R. McIndine's standed the federal report of 1911 an Juvenile Delinquency and its Belstionship to Employment. Records of 4,893 delinquests showed that 3,797 had 21 some time been amployed and that 2,973 had never been employed. The working children were respectable for 5,471 offenses, the non-working children of 3,282 offenses. Both groups ranged from 6 to 16 years. An examination of their been and familial conditions showed that on the whole the dementic environment of the working children was represent. Only one-afth of the working boys as opposed to nearly one-third of the non-workers came from distinctly bad homes, while the proportion of workers and non-workers that came from their tog even homes was as 76 to 85. These comparisons are crude. The clemifications are unrallable and the reliability of the differences between the two groups is not whatef.

A number of other numbes have been expected showing the distribution of various criminal and delinquest groups for economic and occupational status. While there appears to be a large proportion of numbified and numbelified laborers in penal institutions, it has not been estimated by shows that the proportion is greater than that in the numeral population.

(8) The relation between elembolism and drug addiction and orientality.

A great many statistical studies have been performed in the attempt to discover the relationship between alcoholism or drug

MCAM him and forcells delimperay. J. Dalong, 3, 1932, 95-114.

addiction and eciminality. These have generally taken the form of enumerations of (1) the proportion of offereor committed by alcoholds or or drop addicts (Researches (a)-(a)), (2) the proportion of drog and liquor addicts who have committed crimes (Researches (f)-(g)), and (3) comparisons ill the percentages of globelium, interaction or drog addiction among various clauses of criminals (Researches (h)-(1)).

- (a) W. A. Bonger's cites some of the earlier statistics on alcoholism and erims. For example, M. Massin found that 44.7% of 2,588 convicts sentenced for at least five years at Louvain were addicted to drunksnows: Morel, that 52.9% of 225 racidivists at Mone were given to alcoholic excesses; Dalboff, that 27% of 3,982 prisoners at Vridalocalille, Denmark, were drunkerds; Malgat, that 55.3% of 1,850 prisoners at Nice drank; Base, that 41.7% of 82,887 German prison immeter were drinkers and 19.6% habitual drunkneds; Marro, that 74.7% of 507 Italian criminals were addicted to the exceeding use of alcohol: Bonger himself. that 18% of convicts in the Netherlands in 1902 were habitual drunkards: Brace, that \$1.6% of \$,000 princases in the Albany penitantiary were drunkards and 61.6% of 49,423 criminals in New York City prisons were bebitted dreakards; Evart, that 27.3% of 18,048 recidivists in Pressian houses of correction were habitual drankards; Schaffreth, that 38.8% of 2,201 Swiss panitentiary immates were drunkards; and Sichart, that 29.8% of S.181 Wurtemberg princours were habitant drankards.
- (b) M. H. Smith.¹⁰ examined the criminal statistics of Statfordalite for three years (1911-1913) and concluded that alcohol was responsible for more than one-half of the male prison receptions and for a much larger proportion of the female receptions; that a high rate of alcoholic offenses (those where alcohol nauslly is an faculative stone of crime, such as samuelt, shoress exposure, etc.) is usually but not invariably accompanied by a high rate of non-alcoholic offenses (those where alcohol is usually not a

 $^{^{104}}Op.\,cit.,\,pp.$ 209-215 $^{14}Orion.$ alread and other alliest combines in Staffordshire. J. Mart. Sci., 1914, 61, 84-108.

cause of crime) and by orburn of violence, by pumperion and by instalty.

- (c) F. Il Haynes²¹² reports that of the cases exactined by the Massachusetts Department of Mental Diseases from Massachusetts county penal institutions, 45% suffered from alcoholism.
- (d) The Department of Correction of New York City¹¹⁸ reports that of 80,183 zers and 8,186 women received from the courts by the Department of Correction of New York City in 1928, 48 of the men and 9 of the women had used liquor freely, and 35,715 of the men and 2,507 of the women had used liquor moderately.
- (a) G. Kuhne¹⁰⁸ reported that of 15,675 instatus of New York penal institutions 14.75% used associate.¹⁰⁴

Work of this nature has thus for been inconclusive because of the absence of knowledge as to the elcoholism and drug addiction rates in the non-criminal population. For instance, the thanks has frequently been advenced Ti the criminological literature that ". . . the percentage of chronic alcoholics is no great among the criminals, that we can affirm that among the non-criminals the percentage is very small". This assumption essens hardly instited.

Such variances is percessing figures as may be found in the studies cited by Songer are largely ettributable to the turnlightlity of such chassifications as 'alcoholite', 'drankard', 'Rabitaal' drunkard' and the like. The dividing line between such classes as 'occasional drinker', 'occasional drunkard' and 'habitaal drankard' does not appear to be very distinct, such, as Bouger and

Cristoplogy. New York: McGrou-Hill Rook Co., 1970, p. 23.
 City of New York, Regard of the Department of Convention for the year 1988.

^{3.30} Conference on Numeric Education. Houseasts Inference the Committee on Education, House of Representatives. 69th Compress, 1st Science. Westington: 1826, pp. 157-175

[&]quot;Mifer surflar ortinates of the actions of ding addiction nature criscipule see Conference of Consciences of the World Morente Dilliness Associates, Draft of unform fare currents delense how Washington World Conference to Statustic Education, 1927.

19 Statest. ed. eds. v. SIII,

Kinhers have pointed out, these classes are frequently confused and are variously intersected by different investigators.

- (1) The New York Puller Department in 1931 found a record of criminality in 65% of the survoice access. As a result of improved identification records this figure was raised in 1923 to 20%. In
- (g) A report on drug addiction in California caserts that of the men serving sentences on carrotic changes during August, 1826, in Los Angeles City and County juils and in State and Federal, positentiaries, 59% had nevrious criminal records.⁵¹⁷

The figures above enumerated are difficult to interpret because they fall to distinguish between convictions for violations of surrould or liquor laws and convictions for other offenses. In the last two studies is may be observed that only narcotic law arrests and sectances were similar.

- (h) O. Kinberghin studied Swadish criminals convicted in 1906 in order in ancertain what proportions of the various types of crimes committed by them, had been committed by alcoholics who were not at the time in a state of intentication. He found the lightest percentage (28.99%) in the case of serval crimes and he lowest (1.51%) in the case of crimes of their. Among the crimes committed by offenders while in a state of intentication, domiciliary traspasses furnished the highest percentage (28.95%), and torgeties the lowest (1.54%); the percentage for sexual crimes was \$8.85% and for their 28.
- (i) Honger¹⁰ cites the following figures for estual crimes: 51.6% of sexual effence in France, 18.84% of sexual effence in the Netherlands and 38.3% of crimes against morals in Warten.

^{19.1144,} Alcohol and remember J. Cruz. Low and Caramet, 1974, 5, 509-509.
19.116, Cong. Education for the mass adordance was to be found among those guilty of crosss of personal vanience and the least manage them: pasky of the fraudalpoin crosses, with sear of ficious, necessarilary offeromes and their concepting a median position. (The Daglish correct, Loyaless. H. M. Statemarcy Office, 1973, p. 286.)
1809, vol. p. 353-355, 696-680.

berg, were equantized by chronic alcoholics; 25.7% of 178 cases of raps in Austria, 11.82% of sexual exists in the Netherlands, 8.8% of raps and indetest assumits in France and 38% of indecent assumits in Sweden were committed by persons in a state of intextaction or under the influence of itspace.

- (j) J. D. Jackson³⁰ found that there were no cases of drug attention among 240 banding and that the incidence of chronic alcoholium was alight and sesses that these than that found among 1,074 non-banding in the Most James State Prison.³⁰
- (k) An association has frequently been reported between racidivism and alroholism. Thus M. R. Fernald, M. H. S. Haves. and A. Dawley's report that of 188 cases in New York penal institutions classified as alcoholic, the average number of previous convictions was 5.35, whereas for 431 cases classified as nonalcoholic and moderate drinkers the average comber of previous convictions was only \$365. Unfortunately the alcoholic group included 21 cases whose major offense was or directly involved interdesting. Members of this group appeared to be frequently arrested for intoxication and given short centences and discharged. and then reaccested on the same charge. It is clear that short term offenders of this type have greater opportunity for racidivism than many other types of offenders. Comparisons can only validir be made between grooms with comparable poportunities for racidivism. A similar criticism may be made of many of the studies of the relation of alcoholism and recidivism.

Studies have been made at the relationship between the alcoholism of parents and the delinquency of their children.

146A study of wants delimposts in How York State. How York; The Century Co., 1920, p. 197.

¹²AA comparison of himsels well effort princetts at the Mew Jersey Brate. Preson. Manuscopt, 1938. Justines also found that the bunds group had a higher method special age, a higher personage of completences delictors and a higher personage of native where of fastions personage than the non-bandes.

¹⁹⁷the U. S. Trastary Department (Personery Department, Special Committee of Investigation, Traille in neurotic strain.) Windhapter: Government Printing Office, 1976, p. 11.) reports that days officine veroe much fraquestly arrested for Incomp. burglary and molecular distinguishing for devaluations, marrier and

(1) A. Channing commised the court recerts of \$,378 delinguents whom the Gentral Boston Javentle court had referred to the Judge Baker Poundation; they belonged to 2.155 different families. He found that at the times that these children visited the clinics (1) 47% of the fathers who were not living with their families as toutrasted with 37% of those who were, had previous alcoholic records; (2) 15% of the mothers who were not living with the fathers on contrasted with 6% of those who were, also had such records. He also found (3) that 79% of 399 of the fathers who had been reported for describes and non-imprort had such records; and (4) that during the year merious III the auconvence of their respective children in court 29% of the fathers or persons taking their places and 4% of the mothers or parenns taking their places, had such records. Buch control. figures as were employed do not appear to have been strictly comparabla.1M

A number of writers have suggested a correlation between the amount of alcohel or mercotics cosmissed in a community and the rate of criminality or of some type of criminality, puriously offenses against the person. Such studies as have been made, however, have failed to consider sufficient periods of time, when supplying time-series comparisons, or have failed to use sufficiently camparable metional or local groups, when using group comparisons. On the whole, therefore, they have not resulted in any startificant correlations.

In general il appears that the studies of the relationship of alcoholism and crime and of drug addiction and crime have

¹³⁴ Alpaholipito astrong partitats of provide delengancie. Size. Survive Rav., 1927, 1, 300-301.

¹² Where the parent was not as the home the belocation was obtained for the step-parents or the relative who took the indice's place.

The Acceptant of the Transmire with some large used as stated to present a stated and the Theorem and Theo

¹⁰⁰See E. Ferri, Cranand seculary Trans. by J. L. Hally. Bowton: Little, Hrown, A. J. Paris, David C. Sengens, Little Charges, (Publications, des Tândes Crimicologues, No. 3.) Paris. Barnel Europ. 1921.

neglected to take into account the correlative inflamors of such bossibly significant concessions inciors as intelligence.100 abnormality, and socio-seements status, and have also failed to investigate the factor of alcoholism or drug addiction with sufficient rigor. Furthermore, if L. Kolb's" contention is tenuble, that in the majority of cases criminal conduct precedes narcotic addiction and is not caused by it, that criminality is, in fact, somewhat inbibited by addiction to drags, it is quite obvious that previous sindles which have examined the addiction rate among criminals. are quite inadequate if they have failed to determine whether the use of drugs preceded the criminal career. Moreover, while Kalb admits the possibility that crimes of theft are increased by the individual's need of memory to purchase the drug, he holds the unorthodox position that crimes of violence are reduced by the lowered aggressiveness of the drug usor-

(4) The relationship between pharacteristics of a essetife community and oriminality.

(a) Probably the most ingenious statistical study that has been made of cansus records is that made by E. W. Burgessite and C. H. Shawest of delinemency areas in Chicago. They divided the city into regions in terms of their distance along a radius from the center of the city. These regions were then differentiated from one another in terms of various sovironmental factors. and the regions meaner the center of the city were found to be the inferior social environments. A nonitive coletionship was found

¹⁹⁸⁵er durement of Gerrag, p. 158-81, major. See also Spacial Commutitive on Levellegation, Tradic or represent divine.

righton, Traffer in survoire drugs.

2015ce deciminant of Auditorius, p. 116, and of Auditron, p. 120, supra See also f.

Klerm, Alcohol and survey. New York: Branzy Holt and Co. 1911, pp. 26-30.

Klerm, Alcohol and survey. New York: Branzy Holt and Co. 1911, pp. 26-30.

Factor of Co. 1912, pp. 26-30.

Factor of Co.

to exist between the amounts of delinquency in a given region. and the proximity of that region to the city's center. Thus, In the first mile pait there were 443 delinquents per 1,000 of the boy population between the ages of 13 and 17; 58 in the second mile unit; 27 in the third mile unit; 15 in the fourth mile unit; 4 in the fifth mile unit; and more is either the mixth or seventh mile unit.

Further study of this muturial disclosed that the regions of high delinquency appear to be the areas contiguous to industrial or commercial districts to the process of changing from ratidestial to business sections. In these regions gaze life is highly developed in and living conditions appear to be distinctly unfavorable.

- (b) H. M. Bhahnan¹⁹⁶ examined the police preduct in Kings County. New York, which had the highest rate of arrests for delizagency during the year 1935. This area was composed of sanitary districts bounded on one side by a rapidly growing business section and on the other three by waterfront. In another sindyist he surveyed a portion of District 1 of the Children's Court of the Borough of Manhattan, the district which led the Borough for deligoneses in the reace 1920-1924; although its popplation was only \$1% of that of the Borough, the number of delinquents was 33% of the total number in the Borough. He obtained his data largely from court records. He found that the incidence of deligouency is the district was highest in the blocks with markedly inferior bouning conditions and in the commercial great.
 - (c) C. Burtles charted the man of London for the ratios of industrial school cases to total population. III the various electoral

AMSec F. M. Throsher, The gang. Clarings. University Clarings Press, 1927.
1920—Commission on Commiss. In Effects of Cross. A study of delaughouty in a fastyret of Kings County. Allimy. The Cross Commission of New York Study.

<sup>1977.

1987</sup>ab-Commandon or Crems and Effects of Orient. A study of surriremmental factors as precede chicapized, we a defined of Managembra Borough, New York Cry. Albary - The Corne Commonwess of New York Stude, 1978.

1977be young delengant. London Universary of Landon Preus, 1937. This book is based for the most part on the authority and refull "The count' sectors of precede crime" (see 1979, p. 138 ft.). In addition to a quite defining and explora analysis of the cases include in the method, Durt, by him use of the common welfood, extrins at conclusions such as we here can.

districts. He correlated the proportion of delinquency and the degree of overcoverding, he taking these two factors for each of the 29 boroughs as a whole, and obtained a coefficient of +.77 for the entire city. The coefficient between delinquency and poverty, hased on figures for 1908, was stantardy from to be +.47.10 for hexistates to smartle numeri supportance to these correlations when one notes that they are heased on only 29 cases (the twenty-aims boroughs) and on crude indices of the criteria correlated.

(d) P. V. Young's made a study altest studewhat similar lines of the social history of the Eurasan Melokan colony which sattled some twenty-five years ago in one of the inferior districts of Los Angeles. This district has since then shown a progressive detarloration : bealth problems, housing conditions and policing problems have become more acute; cheep amusement houses have increased in number; and a mixture of room, negrous, Mexicans and Armeniana, with a variety of dialects and standards of living, have surrounded the original Molokan colony on all sides. successive gangrations of Molekan children, more and more delinquent behavior has appeared, nextl at the time of Young's study it was practically aniversal. Young divided 265 boys in 108 families (about one-leath of the total number of families) into three site groups; (a) \$-19 years; (b) 30-34 years; and (c) 25-39 years. The (c) group contained beyo born in Bussia, and the (h) group have born in America within five years after the settling of their families in this country. Of the 188 boys in group (1), \$9.5%, and of the 53 boys in group (b) 47.2%, and appeared before the juvenile court; whereas only one of the 24 boys in group (c) was delinement. Since 1915 the number of offendary and

¹⁰⁰ Plant definity an electroscoled latine para tentenest with more than two solids occupants per room, two clothers under ten brang coundered. One expression, of one solids.

softet.

1997: 1s intermeting to note that when Bart most the matridiant as a gent and
compared the commonic shelts of 200 delauptemen with disks of the Louison opposition as
a whole, he broad only a supplied correlations between privary and delauquency.
(The creatal factors of inventor cream. Error J. Mod. Psychol, 1992, 3, 1-33.)

1996/assingary, reporting in the 18 ft. Themes, Regart to Columbia Creamological
Servey, Manuscryp, 1998. Santon 1, 44-47. See also The Resusse Molekan Creamentry in Lie Angelen. Am. J. Soords, 1993, 6, 3994–699.

the number of offenses per key less steadily increased, and the offenses have because more serious in character. In the meantime the delinquancy rate for Lun Ampeles on a wisele, so registered by appearances in the Juvenille Court, has declined, owing in part to the fact that more cause are being disposed of without the intervention of the court.

V. RESTANCED CONDUCTED BY A COMMENTATION OF TWO OF MORE METHODS.

The following studies are to be distinguished from all that we have so far considered by the fact that each W them has not only concurred itself with a number of factors, but has attempted to a greater extent than those previously mentioned to study the interrelations of these factors. The various methods of criminological research must be considered as supplementary. None of them is an adaptate technique for the investigation of all the human and environmental factors which may be related to triminality. One is a more useful way then another for studying a given factor. Thus, the test method and the psychological use of the case history method are edapted to the observation and measurement of the traits of individuals; the sociological use of the case history method, to the observation and measurement of aspects of the anvironment in which homes beings live; and the census method, to the observation and measurement of human and environmental factors in larger possibilions.

Unfortunately, however, the researches which have combined two or more methods have, for the most part, undertaken a merely additive treatment. If them factors. Only a few layer combined methods of research in an effort to correlate the variables under observation. The latter we shall discount at some length after briefly surveying the relatively less significant studies.

(a) V. V. Anderson¹⁶¹ has completed a number of studies characterized by the use of several methods. He compared 100 feeble-

 $^{^{16}\}mathrm{A}$ conjunities study of field cubiculum using effection in court. J. Crim. Law and Crimonal, $107,\,3,\,422.434$

minded and 100 psychopathic unselected cases from the records of the Kunicipal Court in Boston. He found that 23% of the feebleminded and 25% of the psychopathic cases had gone further than the 5th year of grammer school; that 38% of the feebleminded and 89% of the psychopathic waves self-supporting; and that 54% of the saychopathic waves of mormal installigance.

- (b) In a study of drug addicts,⁵⁸ he found 48.5% sphenymal and feebleminded, 14.2% psychopathic and 81.5% splinning from some mental handicap; 65.8% were not esti-supporting.
- (c) In a study of a group of 100 wement* who had appeared before the Boston Blunicipal Court for offenses against charity, he found that 30% were normal, 35% were deal normal, 35% were feebleminded, 6% were optioptic, 3% had suffered alcoholic datazionation, 35 were drug addicts, 7% were psychotic and 1% were parehousthic.
- (d) If still another study,¹⁰⁴ he found that 38.3% of first offenders as opposed to 84.3% of recidivists were suffering from serious mental handlespe.
- (a) P. E. Bowers¹⁶ conducted a suresy of 2,000 prisoners at the Indiana State Prison. 46t were in poor physical condition; 75% were capable of only makilled laber; 44% had psychopathic haredity. 5% of all the crimes which these prisoners had committed were due directly or indirectly to incredite. 875 tested as feebleminded; 260 were singuosed as insues; 200 as sylleptic; 460 as psychopathic. 20% of the prisoners were column, whereas the proportion of neurones to whites in Indiana was 24.5%.
- (f) E. A. Doll¹⁰⁰ summined the records of L52 innates of the New Jersty State Prison with references to the following items:

¹⁴⁵Drag mers m cowt. J. Cran. Law and Cranhad, 1987, 7, 903-905.

147De manoral woman in anim is clear A performing report. Region Med.

145The manoral woman or man is count. J. Crim. Law and Crancol, 1918, 8,

^{****}A survey of treaty-five insuland presences as the psychopothet Interstory at the Indiana State Present. J. Defens, 18(1), 4, 1–6.
**A study of multiple criminal factors. J. Celm. Law and Criminal, 1872, 11, 33-46.

nature of offense, previous record, minimum unstence, nationality, venus of residence in the United States, ago, mental age, schooling and psychological diagnosis. His purpose was to study the interrelated effects of these factors upon criminal behavior, rather than the influence of a single factor considered in isolation. as has been done in most If the reported criminological studies. He cancluded that crime is definitely related to nationality, previous eriminal record and nevelological condition. However, his study was undertaken largely on a study in method, and he realised that the number of his cases was too smell to warrant definitive concitations regarding so large a number of factors.

(g) M. B. Fernald, M. H. S. Hayes and A. Dawley¹⁶ studied. some 500 female offenders over 16 years of age in six New York State institutions by the test and case history methods. Offendars reared in socially and economically interior homes apparently tended to become delinquent or criminal at an earlier age than those from better houses.146 However, no marked relationships were found between the type of home and the type or extent of criminality. While according to the 1910 census 28.7% | tha New York female population over III were in domestic service. 42% of the offender group were demostica.100 The proportion of foreign whites is the group of offenders from New York City was smaller than the proportion of foreign white females over III in the entire female population over 15 in New York City. However, there was a larger proportion of native whites of foreign or mixed parentage in the group of affenders than in the general population. The contrary was true of metive whites of native parentage. When compared with 187 Cincinnati working and school girls, 29 mill operatives and 93,855 members of the army draft, the average mental expansity of the offenders was found to be inferior. although there was considerable overlapping of the distribu-

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tions. We Offenders with a recent of sexual irregularity were of lower average intelligence than these without such a retord. Although the investigators attempted to secure a representative sampling of New York founds offenders by selecting small groups from six institutions in which different types of offenders were confined, they would have secured more significant results (as well as better samplings) had they either increased the total number of cases or grandined a sampling more representative of a single type of offender. Furthermore, the control groups do not among to have been strictly comparable.

- (h) A. T. Bingham³⁰ studied 500 girls in Waverly House in New York who were extend effenders. 71.6% came from broken homes; both parents of \$2.5% were foreign-bors; one parent of 12% was foreign-bors; analysis of their biographies showed that 62.4% of them had been expected to bad companionship, and that 15% indulged in low forms of ammenment. \$4.2% of the group were fabluminded; 13% were of borderlines mentality; and 17.6% were rated as temperamentally unstable.
- (i) J. Matthewer's surveyed \$41 deliments girls at the Whittian State School. More than 64% came from broken brome. Their median intelligence quotient was £1 as compared with approximately 106 for Terman's 506 unselected public school children. Their median height was superior to the Smedley age norms and, in lesser degree, to two California public school orgroups; their median weight was superior to the Smedley norms. As rated by a questionnaire, 60% were active or excitable; about a third could be classified as emotionally unstable. But used if this research as a covaired were inapplicable.
- (j) K. A. Merrill⁸⁰ studied 236 cases from the Santa Clara. County Juvente Court. The boys outnumbered the girls three

^{100 (}for another material are 5. Waldsmall, The metality of the cristical season. Bellimate V. Warnel & Touch 1996

All (Determinants of tax delargatory in additionant, givin broad on intensive studies of 500 girls 1, Cent. Law and Cermond, 1993, 18, 48–528.

1814, survey of 541 delargatory in California. J. Dalong, 1995, 21, 198-211.

1824/activi Gelbertson studies; pieculic delargation. J. Delarga, 1996, 20, 512-523.

to one; 45% of the girls' offences were against chartity; 61% of the buys' offences were against property. The fathers of the major part of the whole group were skilled or maddled laborers; 45% of the parents were American born; 3.8% came from broken homes; and 66.4% had in I. Q. below 99.

- (k) C. H. Calhour's made a comparative study of 100 normal B (Group A) and 100 mentally deficient (Group B) boys. Group B had a large proportion of fureign-loses percent. 45% of Group B and 31% of Group A came from broken bones. The boys in Group A had a total of 206 and those in Group B a total of 126 entri appearances. Those is Group A committed more offenses against properly thus those in Group A committed more offenses against properly thus those in Group B committed more offenses of truncey (35 against 5) brightry and larceay, 15 against 6. But has boys in Group B committed more offenses of truncey (35 against 13) and immorality (16 against 5). Group A had the greater number of institutional placements (65 against 30). Unfortunately no diagnostic study of other paramountity traits of these two groups was made.
- (1) M. S. Brill²⁸ made a comparative study of two groups, each of 20 delingreets, one with 1. Q.'s below 96 and the other with 1. Q.'s above 10. The case bistory study of the combined groups retealed that of the 40 cases, 50% had been unfairly graded in school and 25% were transas became they distilled that backway, 30% were reported as physically restlems at school and the stealing occurring in 20% of the cases was motivated by a desire for things not supplied at home. Further diagnosts of the case bistories revealed that the general matrivation of the superior children was mainly defensive, while that of the interior group was mainly aggressive. The superior group came from more abstrant home settings. 3 of the superior group came from such homes; insmitty was present in the fundices of 6 seperior children is insmitty was present in the fundices of 6 seperior children is compared to only one case of insmitty in the less intelligent group.

¹⁶¹A follow-up study of 100 natural and 100 apparental delectrant boys,). Delay, 1928, 12, 225-201. 18th Motivation of conduct diproduce in layer. J. Dudwg, 1007, 14, 5-82.

Brill concluded that it takes more unfavorable elementances and a greater number of motives to upon the augerior than the inferior child. As Brill hisself appreciates, 48 cases in far too few for an adequate statistical comparison.

(m) M. H. Erichnon^{me} esummed 1,880 white sugle adult prisour in Wiacometa penal funditations. He found 50% with an I. Q. below 90, as compared with Terman's finding of 20% for a group of unselected school children. 20% of the prison group 18% for the population at large. 27% of the prison group cams from broken homes, as compared with Shideler's estimate of 25% for the general population. These control indices are obvious unantinfactory. Evictuon found so significant differences in the intelligence of the prisoners when classified according to their offenses.

(n) W. T. Root¹⁰⁷ undertook a psychological and educational survey of 1.916 princeses in the Western Pentientlary in Pennsylvania, using mental tests, the Woodworth Psychiatric Questionnaire and case histories. He found the median I. Q. of those committed for predatory erimes to be 80.3; for any crimes, 79.8; for trimes of violence, 70.2; and for all crimes, 78.9. 61% of the prison population had not received a common school education commensurate with the potentiality of their general intalligence. Using the Woodworth Questionnaire, he found that 11% of the entire group were "probably paychopathic". Princeers convicted of arson, sodomy and rupe contained the highest percentages of "probably psychopathic" cases, and those convicted of embeantment, forgery, felonious assent and larceny, the lowest. Among the rucial differences observed, it is interesting to note that 70% I the Italians in the group committed eximes of violence, while 70% of the native-born linksns committed predatory crimes; the aventest crime frequency, as based on an index of 1 for the native

¹⁸⁶A study of the relationship interest intelligence and crime. J Crim. Lew and Crimicol., 1929, 19, 592-685.

¹⁰⁷ A psychological and admitted survey of 1916 primmen in the Western Puniturity of Paragrams. Heart of Trustees of the Western Puniturity, a. d.

whites, was to be found among the negro group, with an index. of 13.89.

- (o) T. E. Sullenger tound that 191.7% if 1,145 delinquents in Omaha came from broken houses. 78% of the cases appeared to be members of gange. 15% of 119 newsboys were delinquent. which is 4.8 times the normal inventle delinquency rate in Omaha. Negroes appeared to contribute more than their proportionate share of the delinement population. He stetes that a high correlation existed between the rate of inventle definemency and the donaity and mobility of the populations examined. This conclusion, as far as it concerns mobility, is invalidated by the paneity of cases considered and the fatiure to establish criteria. for the amount of mobility in the general population.
- (p) F. G. Ebragh, G. S. Johnson and L. F. Wooley's stamined the records of the cases that had come before the Douver County Juvenile Court from 1909 to 1929. They discovered that over a five-year period 43% of 1,178 came came from 15% of the total City area. The areas with the highest delinquency rates appeared to # those between business and residential sones. 100 They also found that 40% of 3,892 cases came from broken homes. As a part of the same sindy they examined more intenrively 100 unselected boys in the State Industrial School at Golden, Colorado. This group as a whole appeared to be in normal physical condition. 54% came from broken homes and in 36% of the cases there was a previous record of delinquency or trime in the family 18% were mentally deficient and 29% either borderline or dall normal. Phychiatric analysis seemed to show that the behavior responses in 35 cases represented direct attacks upon the difficulties or situations that were excountered. and in 18, a withdrawal from the difficulty or attention; 47 displayed an inferior type of reaction corresponding with the factdence of mental defect.

Social determinate in procesic delimency. Omits, Neb.: Dougles Printing

Co., 1995.

105 Thetesa in Jerumie dicharactury in Columnic (No I. One bandrot boys.)

10 Thutesa in Jerumie dicharactury in Columnic (No I. One bandrot boys.)

10 See 2 135, supra.

(a) One of the most carefully executed of the investigations which have employed a number of methods of research is that performed by S. Glanck and E. T. Gineckass as part of their intensive examination of the current of 510 immates of the Mannchuagtia Reformatory. The Gluscku found that over half of these criminals belonged to families some members of which had been arrested or committed prior to their own (marisonment, and that un additional 29% belonged to families in which delinquencles such as drunkenness or immorality were propent, although the offenders had never been arrested. 15% of the families were dependent economically; 56% more were in "marginal" circumstances. In only 13% of the cases bad one or both parents attended even the common school. At least 60% of the cases came from broken beenes. The proportion of native-born persons of foreign or mixed parentage in the reformatory group was about two and ane-half times the ratio for the male adult population of Massachusetts. On the other hand, the preportion of foreignborn of foreign parentage in the group was only about two-fifths of that in the general population. The reformatory immates came from families appreciably larger than the average Hassachusetin family. The Gluccks also found that the more densely populated districts contributed a disproportionate number to the criminal group. The psychological findings (on 884 cases) were that about one-half of the men were of dull or of bordarlina intelligence, and 21% feebleminded; 3% had definite psychosos, 18% were psychonethe; and 9% were classified as drag or alcoholic deteriorates, sex perverts or congenital syphilities. Vicious habits were common among members of the group and appeared more frequently in combination with other victors traits than singly. In spite of the Gluncks' use of two or more methods of research and their canons with a number of different factors. it is difficult to interpret the data which this interesting study

¹⁴⁵⁵⁰ criminal concern. Menr Nork. Alterd A. Empl. 1939. Have, as absenders, no extende has been made to summarize sell the data yacked by the study but only cough to induct to scope has glocal; cleanaged. The records of the Glosche was presently to determine the smaller of particle as publics to treatment, and we decrease takes more fully on that conductors.

har assembled. The absence of control growns in probably its basic defect; only comparison groups were smplayed. In Addition the investigators failed to obtain data of equal reliability for the various factors investigated. Thus, intelligence was determined by intelligence tests, while dementic felicity was determined by an index, the precise significance and reliability of which is not known. Again, psychiatric diagnoses of absormality are the source of one series of data and intelligence tests the source of another. Such data are not strictly comparable. Therefore, percentages or percentage differences which are derived from than do not adequately ambibit the relative significance of the different tactors.

(r) A word should also be said about the work of Healy and Bronner¹⁸⁸ who have studied delinquents and criminals over a long period of time. Their investigations have been conducted mainly by various kinds of psychological tests, supplemented by psychiatric and psychoenalytic diagnosis. In many instances they have reported quantitative semmentes with respect to one or another of the possible caused factors, but their work, as a whole, has not been integrated. It has not revealed the internelations of a large number of factors operating in delinquent and control groups. Their researches meat, nevertheless, be recognised as among the best exploratory work in criminology, and they have undesthaily been both the background and the guide for many other studies. ²⁶⁸

It remains to consider several sindies which appear to be the major researches so far completed in casestion. These similar are distinguished for comprehensiveness of scope, for methodological ingenuity and for some satisficial competence. They seem

¹⁶WSes 9 103, rapre subvalued delanguage. Hauton Lettle, Berrows, and Co., 1916, Merrial conditions and manuscribed Business. Lettle, Berrows, and Co., 1918 & K. Bernsan, Merrial conditions and manuscribed Business. Lettle, Berrows, and Co., 1919 & K. Bernsan, Coligor, Cohambas Unreventy, 1914, & resumpth on the proportion of mental destructions and delanguage and Comm. Law and Growmant., 1914, 5, 561-569, The appearance of the contract of th

to represent the best research which can be done in the present undeveloped state of exhainological theory with the presently Available records including an. These investigations are however, as inconclude as the lass slabourds studies. They are chiefly important as contributions to the authoritopy of research.

(a) C. Gering²⁰⁰ analyzed a great variety of data relating to some 3,000 convicta, and made a zeries of interesting comparisons between various eximinal and non-extunsal groups. This work is distinguished by its statistical refinement,¹⁰⁰ to be expected of any research directed by Karl Pearson. Goring attacked Lombrons's augtomico-pathological method. Whereas Lombrons a tempted to discover "enomalism" by unaided observation, using measurement only as a subsidiary device to confirm the rainita of observation, Goring Insiesed that physical abnormalitae could be discovered only by precise authorometric methods.

Goring divided his criminal group according to the crimes of which they had been convicted; densing to property, stealing and burglary, sexual offenses, violence to the person, forgery and frand. When he compared each sub-group with the averages. for the antire group, he found no significant differences for any of 87 anthronometric measurements. Some of those ware unambiguously defined in terms of calliner messurements, but the personal judgment of the investigator entered into others in verying degrees. Comparisons between the total group of convicts and various non-eriminal groups, including 1,000 Cambridge students, 959 Oxford and Aberdeen students, general hospital inmates, 118 military men and university instructors, revealed no alguificant differences in crusial measurement; in fact, collega men differed more from one university to another than from some of the criminal groups. In these comparisons, age and bodily stature were held constant. While it was obviously incorrect to compare sub-classes of criminals with averages to which the subclasses contributed, and wille Goring made so attempt to dis-

¹⁶ The English conviol. Lumbur H M Stabanery Office, 1813.

100 Goring's analysis of the nechal-largest representation of economic plants are to the field.

cover a possible differentiation with respect to enthropometric traits when taken in combination rether than singly, still any spirking differentiation between the various groups would have been disclosed by the method be adopted. His results, then, indicate that criminals, are not differentiable from non-criminals in terms of physical utigrands, as Louisnoon maintained.¹⁹⁷

In regard to physique, Goring found me reliable difference between the various sub-classes of convicts and the active class when use and social status were held constant. However, the group of convicts and each of the sub-groups, with the exception of the fraud offenders, we speared to be inferior in physique to the general population, seen whose age and social about wave held constant. In investigating the connection between criminality and insanity or disease significant tetracheric v's wars found only in the case of alsoholism (391) epitopsy (394), and removed disease (310). Even the first two correlations, however, were readered more as less neighbors when intelligence was held constant.

In the intalligence correlations the amount of feeblamindedness in the criminal group was detoraised solely by diagnosts and that in the general population by more or less approximate artists. These criteria are obviously uncellable. To Goring's correlation of +.86 between feeblewindedness and criminality, upon which is placed great emphasis is therefore act to be taken too surfounly. His investigation of the relationship between various modelocated factors and criminality was rather sponfield. It

¹⁰Lombrons entered that more 40% of examinate were classically to both trustment who were differentiated from the noticed by various authorogeneric trials. The presence of each is grown should have produced greater differentiation than was obtained by Gornig.

¹⁶⁶The fress of orders, incidentisty, appear to be, malke the tuber prome, a representative scaping of the imment population, home described by leve also-holous and higher satelliqueive and educations, these staterage rates and decapetational distributions are closes to those of the guarant population, wit. Other most distributions are that formed of the sate to be convexted for noticity offenders and distributions are that from those of the sate to be convexted for noticity offenders, and the transmit accurate at a relationship bin age (our offsathers, per content, starting spatis).

¹⁴⁰ However, Gorang argued that definitive physique, as well as defective intelligence, condense at more likely that an officialer model he appraisement and convicted, 170-200, pages.

was only incidentally involved in his inquiry, and he relied upon official records for his data. He found no significant correlations, except possibly for occupational states. He also found tetracharle r's ranging between A and 7 (based on varying estimates of criminality in the general population) between the criminality of fathers and that of their male offsuring, and between the criminality of mothers and that of their male effective. For a number of reasons he adopted . It on an index of criminal parental inheritance, which was slightly higher than the indices of the inheritance of other fectors, such as issues disthesis and tuberculods, which he and other investigators had obtained. His correlations between crimicality and the tendency of brothers to be sent to prison ranged from .22 to .58 (most probable value .45); and the marital correlation for crime was .64. Goring assumed that inharitance accounted for the former and mating for the latter. He was of the opinion that the influence of criminal contagion was very alight in producing these results. Coupling this with his finding that the criminal was inferior to the pop-orizinal both in physique all intelligence, both of which he believed to all inheritable qualities, he reached the ultimate conclusion that the oriminal was characterized III a seneral becedimen inferiority. This conclusion has been much creticised, and it was undoubtedly based on faulty syldence. Goring's work in nevertheless valuable as an exhibition of better statistical wark'et and because of the anthronometric data which it yielded. 272

478 For a critical distunsion of Garmir, see G. Louistens-Bervino, The results of an official suveringston, smile in Engined by Dr. Goring to best the Landstope hysicity, J. Crim. Law and Cramout, 1944, 5, 207-202; E. Perr., The present neverance in the continuous proposes of a beological strendigation in the Engine present. In June 201-202; W. A. White, Bistolic of matter from the hypitheir present of the J. 201-202; W. A. White, Bistolic of matter from the hypitheir reference. The J. 201-202; W. A. White, Bistolic of matter from the hypitheir reference from a landstopology. Pail J. 308-315; S. See sales M. P. Parancies, Gramoudage, New York; The Macanista Co., 1952; and F. Bass, Authoropology and modern life. New York: W. W. Norton, revenuel estimates.

New York. W. W. Neven, review common, 1806.

"IFFOR matteries, in researching the union of the relationship between the presence of a character in a criminal and the type of crime the mentional characteristics were discussed in the properties of the research researching to the degree to which the parameter quantum was interbyed, in power cases age was first discussed by the first off regreement, formalist, in others, age and restore, in still others, restore and infillingum. For a fauntit, group of factors where there was no proceed for the memory-time of a granulated manifestal resist, the correlation was a second or the correlation of the correlatio

(t) Another of the more elaborate studies in that of B. Lund. *** His findings are based upon a study of seven groups: (1) A group of 175 institutionalised delinquent here for whom he had data derived from psychological tests, psychiatric examinations, interviews, and special inquiries made in the places of residence of those with whom the delinquents had come in contact before commitment; (2) A group of 445 institutionalised delinguent hove on whom the data were not suite as complete although of the same general type: (3) A group of 743 delinement hove (which included group 1) on whom data had been accured for a few factors: (4) A group of 106 institutionalised delipquent girls on whom the same data had been accomplated as in the case of group 1. As control groups, Lund used (5) 769 secural boys, and (8) 106 normal girls, for whom he obtained a variety of more or less comparable data; and (7) also the siblines of his dalluquent groups on whose he had date derived from the cose histories ill the dalinquents. Groups 5 and \$ were roughly equated with the delinquent groups for age and place of origin.

Lund's findings are too numerous to report in any detail. We give a few of his more interesting differences. He found that the litegitimary rate was 23 % for the delinquents and 1.8% for the non-delinquents. 32.2% of the delinquents and 8.4% of the non-delinquents had immered parents; 18.1% of the delinquents and 3.8% of the non-delinquents are explant; 4.7% of the delinquents and 28.5% of the non-delinquents had lost one parent; 36.% of the delinquents are compared with 2.1% III the non-delinquents had alreadoffs inthems; 8.4% of the delinquents and 7.8% of the non-delinquents were from ecunomically well-situated families. One or both parents III 1.7% of the delinquents and 71.6% of the non-delinquents and removing the continual of 1.5% of the non-delinquents had erfundual

tion extent settled was described and the confidence of contingency suspense. Both correlation ration (a) and the confidences of contingency (Co) are always positive table; the Pearson 1; their average as not 0 into a sunit positive number and home a value of 1 means less when observed for a suit Co from for x.

120 Upon the counters for ignormalisabilities (Lipshe); Managite & Wikmile, 1918.

records. One or both purests of 21.1% of the delinquents and of 5.6% of the new-delinquents were physically absormed. 24.4% of the delinquents but only 10.2% of the new-delinquents were of retarded intelligence.

On the baris of a study of the case histories of his first group of the delinquests, Lond estimated that in 13.71% of the cases delinquency was to be attributed largely to heredity; iii 97%, primarily to heredity and assessment; in 15.43%, mostly to environment; in 50.25%, largely to environment; in 15.43%, mostly to revironment and subsidiarily to heredity; and that in 19.85% of the cases heredity and environment and subsidiarily to heredity; and that in 19.85% of the cases

Lund also computed serval tetractoric correlations for a group of 8,317 composed of delinquents and their siblings. He found that the coefficient of correlation between psychic subnormality of the parents and psychic subnormality of the children was $.75\pm .03$. The coefficient between alcoholism of the parents and delinquency of the children was $.13\pm .02$. The coefficient between architecture was $.13\pm .02$. The coefficient between oriminality of the parents and delinquency of the children was $.84\pm .82$.

Lund's study resulted in an enormous amount a data, which clearly suffer from the lack of adequate statistical imatmant, since they are mainly in the form of unormalised percentage comparisons. The method of percentage comparisons is a clumsy method for dealing with a large number of Variables, and it tends to give an exaggerated impremion of relationships, especially among small groups. Lund's dain are of undetermined, and probably of low, reflability because of his application of percentage comparisons to small groups. To some extent he also employed classificatory categories that were not strictly defined. His control groups were not selected with sufficient care to make If possible to determine the precise nature or the exact extent of the factors controlled. From the point of view of statistical technique Lund's work, therefore, is decidedly inferior to the studies of Goring, and to those of Bart and Slawson, which we are about to examina. It is interesting chiefly because of the wide range of factors which Lund attempted to take into account.

(v) ill Burt's also undertook an elaborate study of the causes of delinquency. He meet various mestal, schodastir, and physical measurements, physical causinstitutes and paythatize diagnoses, and in some instances he attempted a brief psychoanalysis of his case. He studied 197 delinquents between the ages of 8 and 17, of whom 123 were boys and 74 were girls. He compared this group in every detail, except psychoanalytically, with 100 non-delinquent boys and 50 non-delinquent girls who were paired with the delinquent group for age, schooling, neighborhood and socio-counted status. In seem instances he used a larger control group of 300 non-delinquent buys and 200 non-delinquent girls of he same age and socio-counted course instances in the delinquent group. This larger reconstructions included the smaller control group.

Burt first enumerated a schedule of approximately 160 posnible factors which he then chassised under four hands: hareditary conditions, environmental conditions, payeded conditions and psychological conditions. These factors were further classified as major or mixes according to the way in which they appeared to be related to delinquency in the individual cases. This enabled him to compare the frequency with which any given factor appeared causelly as a more important or as a less important factor. His data are summarised by percomatage of the appearance ill each factor for each of the groups studied. His statistical generalisations are in the form of coefficients of association betwent his general classes of factors and delispency.

The coefficient of association between the class of hareditary sonditions as a whole and delinquency was +25 when those conditions were determined by ratings of relatives generally, and +.32 when they were determined by ratings of parents only. The coefficient expressing relationship between environmental conditions and delinquency was +.25, between physical conditions and delinquency, +.36, and between psychological conditions and delinquency, +.36. These coefficients are derived from tables in which Burt compares the delinquent with the non-delinquent group with respect to a long list of specific factors. Since we

¹⁷⁷ The count factors of journile crime. Brit. | Mail. Physici., 1983, 1, 1-23.

cannot reproduce these tables or adequately summarize the large array of data which they contain, we shall quote Bert's conclusions instead.³⁷⁰

- "(2) The tables show a lengthy list of contributory causes. Delinquency in the young scene useignable generally to a wide variety, and monally to a plurality of converging factors; so that the juvenile erhalmal is far from countitating a homogeneous paychological class.
- "(3) To attribute trime W general to either a predominantly headdary or a predominantly environmental origin appears impossible; in one individual the former type of factor may be paramount; in another, the latter; while with a large assortment of cases, both seem, on an average and in the long run, to be of almost serual weight.
- "(4) Heredity appears to operate, not directly through the transmission of a symbol disposition as such, but rather indirattly, through such congenital conditions as delicest, deficienty, temperamental instability or the excessive development of some single primitive instinct.
- "(5) Of environmental factors those contering in the moral character of the delinquent's home, and, most of all, in his personal relations with his parents, are of the greatest influence,
- "(4) Faychological factors, whather due to heradity or to anvironment, are supreme both in number and strength over all the rest. Emotional conditions are more significant than intellectual; while psychonallytical complexes provide everywhere a ready mechanism for the direction of overpowering instincts and of represented emotionality into open acts of crime."

Burt was able to study so elaborate a schedule of factors by ampleying a wide range of techniques. His attempt to quantify data obtained by the one blatony method is of particular laterest. Furthermore, his choice of control groups was unusually careful.

^{173(7),} pl., p. \$2. We have qualited (1).

Instead of using published serves, on so many investigators have done, Burt selected his controls and enumined them directly. His work, however, E not without its methodological defects. Many of his classifications are probably of low reliability. This has diminished the securacy not only of his percentage determinations but also of his correlations, since the degree of correlation was undoubtedly influenced by the varying reliability of the factors correlated. Furthermore, his correlations between classes. of factors and delinquency do not show the precise relationships which obtain, since the interrelationship of the various classes of factors was undetermined. The most they do is to suggest that certain of the factors studied are either related to delinquency or associated with other factors which are so related, but that do not indicate which. The populations with which Buri worked included too few cases for the study of so large a number of factors. Finally, there is some doubt as to the propriety of the use which Burt made of the coefficient of association, 100

(v) John Elawson³⁷⁵ studied 1,543 delinquest boys from the New York House of Refuge, the State Agricultural and Industrial School, the Hawthorne School and the Berkshire Industrial Farm. He used as his controls either published norms for the tests and questionnaires which he editioletated, or various proups of New York public school children comparable for nationality. age or socio-economic status. Most of his work was executed by means of the test method, various forms of which he utilized in the study of a wide range of different factors, each as intelligence. psycho-naurotic traits, physical traits and environmental conditizme

Tested for their verbal shabart intelligence, only 17.7% of 1,446 delinquents reached or exceeded the norms for a comparable group of unselected public school children. 13.4% of the delinquents were normally deficient and 16.4%, of borderline intelligance. This low percentage (as compared with the usual cutigance. This low percentage (on compared the fact that he took mates of 25%-95%) Elaware explains by the fact that he took

¹¹⁰T L. Kelley, Statuted sectod. New York: The Mice 177The delegant log. Reston: Hodger, 1826.

14 years as the minhi level instand of 16 years in and also by the fact that his cases included a considerable group of Heinrews who tamied to raise the group average. Using the Terman group as a control, he correlated mental deficiency with delinquency for the adult white population over 15 at the New York House of Refugs and obtained a coefficient of +-15; using the ermy draft as his control, he obtained a coefficient of +-15. The difference between these two coefficients is probably to be accounted for by the difference accounted status at the two control groups. Sizuwon also found that the correlation between intelligence and extent of delinquency, as measured by the number of times arrested and the seriousness of the officers charged, was configured.

Tested for their sen-verbal concrete intelligence by the Thorn-tilles non-verbal test, "* 32.4% of Shaweer's delinquent group reached or exceeded the Thorn-tile norms. Again, it may be questioned if the control group was strictly appropriate. Tested for tasir mechanical spetitude by the Stenguist test, the delinquent group was found to be approximately normal, and relatively superior to their rating on abstract and concrete intelligence. Correlations of both these existents with delineancy wars negligible.

Blawson used the Woodworth-Matthews inventory to detect the presence of psycho-nearotic responses. 15.6% of the delinquant group in three of the institutions reached or acceeded the madian scare of unselected school children. Using the school children as a control, Blawson found the colligation coefficient between poorer than median performance on this questionnelies and delinquancy to be 4.4%. There is some doubt as to the competency of this questionsuire, since it contains no questions dealing with not reactions and emphasises the submissions as opposed to the sacressive toxis.

¹⁷⁸ See p. 113, Juphes.

The transfer is whishly as an induction of the hotellapare of flows boys who, because of the influence of ener and inducative, such as of the influence of ener and inducative, such as of the influence performance were This was estimate for the Hotelever and Island so who did better on the Thioradole best flour on the Network Intelligence Test. On the other band, it mentally make be a land distribution on the lower ranges, note as presentation at particular form moment that a milgest may note the point of a whole suction of the mile.

Physical measurements were also taken. In weight, the delinquent group tended to be slightly separior to norms of comparable social status (the Burk source se compared to the Smodley norms). As for height the younger delinquents were normal as compared with the Boas and Smeelley norms and the older dalinquents tended to be alightly infector. However, comparisons of the Hawthorns Beheel (surfactor: However, comparisons with the Boas norms for Hebrews tend to indicate that sationality plays a great part in determining beight. No relationship was found between beight and weight and the degree of dallaquency.

In addition, Elawson studied a number of environmental factors. Broken homes were present in 45.37% of 1,549 cases as compared with 19.3% for 3.100 New York public school skildren (and 30.38% for a controlled group of those children). Uning this latter group to a control the coefficient of colligation between broken homes and delinguency was found to be +.80. When another control group was selected with a lower social and economic status, this spellicient was reduced to +10. No noteworthy ralationship appeared between broken homes and the extent of dalinguagey. The correlation of delinemency with an institutional childhood, e. g eroban asylume, was +.48; with the presence of step-parents, +.22. The number of mothers calabilly employed seemed to have practically no correlation with delinquency. There was apparent, however, a slight tendency for the delinquents to come from larger families and families where the father had a low occupational status, although no appreciable correlation was found for the extent or severity of delinquency. The relationships between race and delinquency and nationality and delinquency were also negligible.

Shawson's work is commendable both for its thoroughness and its statistical experiment, as manifested particularly in the use of more or less specific furness and the frequent intercorrelations between the various test somes and between test scores and other characteristics of his groups. Its chief defect lies in the incomparability of some of the control groups with the test groups, although ill frequently sought to obviate this by obtaining conclusions for the most comparable of the imitiations he atudied. To obtain results which were sace than suggestive, the test and the control groups about have been more carefully matched. In this respect Buri's work is superior. Slawsan's scale for extent of delinquency (heard on a deline-day sentance achoms) was an angenious device, valuable in that it permitted the use of accurate measures of correlation. His coefficients, however, lack significance because of the failure to control intercelated variables. The only factor which was controlled satisfacionally was ago. The negligible coefficients which he obtained in many instances may have been due either to the absence of any relationship or to the making of relationship by meounivolled variables.

Section 3. Critical Seasonery.

We have now completed our survey of commence in causation. In reporting these researches we have seemly commented on the validity and significance of the desings and have pointed out defects in method. In this section we shall attempt a comprehendive critical appraisal of this body of investigation, an evaluation of it in the light of standards and criteria which we have previously explained. This will easelst us here to summarise the methodological criticisms which have been made disconnectedly at various points in the foregoing servey.

Our drittchans of the work are based, first, upon the conception of empirical science and scientific method stated in Chapter IV; and, second, upon the analysis of the problems and methods of the research, which we presented in the first section of this chapter. We shall conflice our specific criticisms, however, to a discussion of the fallows of those investigations to satisfy the indisperantile requirements of method and precedure establed by the nature of the problems under investigation. We shall not criticise them for failing to solve citological problems, for failing to give us knowledge of the causes of criminal behavior. An examination of the researches shows that they were not devised to answer questions of clinings; the methods employed and the nature of the problems are hopelessly inadequate from the point

of view of etiology. We have, however, been able to formulate a number of specific problems to which these researches, by reason tithet plan and method, can possibly be relevant. These specific problems of group differentiation have, of course, some relation to problems of stiology, but they ment not be constant or identified with the latter.

In short, we shall not referrate here what was pointed out in Chapter IV, that there are no ocientific propositions in criminology because of the raw empirician and the confusion of subject matters which currently prevail in psychology and sociology. Instant, we shall require whether this body of investigations affords a definite or clearly valid soower to say of the following specific questions: (1) Can crimicals be differentiated from nonoriminals in terms of any set of factors? If so, what are the differentiating fortues? (2) Can any type of criminal be differentiated from any other type of criminal in terms of some set of factors? If so, what are the factors? (3) Osn any type of criminal be differentiated from non-criminals in terms of some set of factors? If so, what are the factors? (4) Can any type of noncriminal be differentiated from criminals ill terms of some set of factors? If no, what are the factors? (5) Can any type of nonpriminal be differentiated from any type of criminal in terms III some set of factors? If so, what are the factors?

Our critical opposised of the researches reported in the preceding section can be succincity summarised in the following statement: These researches do not signed a simple definite and obserby colled ansecor III any of the foregoing questions. We do not know whether criminals can or cannot be differentiated from non-criminals in terms of any set of factors. We do not know whether classes of individuals whose offenses are different in terms of the criminal law can be differentiated from one another. We are similarly ignorant with respect to such of the other questions. Unless II is unfair to say that it was the purpose of the respectors summarized III asswer questions of this suct, it cannot be thought an unjust evaluation of them to say that they have failed utterly to accomplish the gurpose for which they were substates. All

of the investigations which have been conducted not only have not advanced our knowledge of the causes of criminal behavior. but, what is worse, have not yielded conclusious relevant to the only specific problems by which they can conteivably have been directed. The knowledge which has been accumulated by so much industry and effort not only locks ottological eignificance but is inconclusive in its own terms. It can have the status only of descriptive knowledge, for the most part restricted in its reference to the particular aggregates of individuals which crimingly. orists have at one time or another studied. We have previously discussed the limited value of descriptive knowledge. It can be added here that these researches have the further value of a had example. They illustrate errors to be evolded in the foture, and in this way they provide useful background for the formulation and execution of future research projects. They have given investigators training in the use of method and have revealed some of the defects and pitfalls to be avoided in the future employment of these techniques.

In order to profit from the bad example which a failure of this acri office, we must analyse is some detail the factors which are responsible for the failure. We can continents the different defacts in the mathodology of thems investigations under three heads: (1) the validity of observational data; (2) the straintical significance of observational data; (3) the straintical products; (3) the significance of the data with respect to the problems of the recentry. The general conditions of the validity and significance of data have aircraft been discussed. We shall, therefore, contine currentum here to an enumeration of specific failures to matief these conditions.

The Validity of Observations.

A. Where researches have employed the test method, they have in simpst all cases done so without determining the validity of the data derivable by means of the test instrument. Many different tests have been med, but only in the cases of a few intel-

¹⁸⁶⁵er p. 100, E., august.

ligence tests has the test instrument itself been justed. Data which are gained by means of a test instrument, the accuracy and reliability of which is not known, must have indeterminate validity. For the purposes of neisnee, data which are indeterminate are as worthless as data known to be false.

- B. Where researches have employed the case history rosthod and have necessarily establed direct elegenation of the items in case histories, the kiness have addison here defined. These observations, furthermore, have been made the hade for the psychiatric diagnosis and classification of individuals and for the sociological classification and comparisons of environments, but in no case has any effect been made to test, first, the reliability and accornacy of the abservations, and, second, the reliability and accuracy of the diagnosas and clausification. There is some indication of the annualisability of both observations and diagnoses in the diagnosement of the findings of various comparable researches. In any evant, the data of observations here have an indeterminate validity in the same indicated above.
- C. In the use of the case history method for the purpose of making diagnoses or classifications, it is accountry to distinguish between what is abserved and the inferences which follow from these observations. The distinction is important because the conditions of the validity of observation are different from the rouditions of the validity of observation are different from the rouditions of the validity of the products of lateresce. It is, therefore, a serious defect in absorb all of the work which has employed the sase history method that this distinction asse not been made. Much of the unreliability that is disservable in the disagreement of the findings may therefore be due not to the invalidity of the observational data but is disvergences in the inforestal processes of diagnosis and classification. On the other band, the lack of definition of items to be observed suggests that the observational data themselves are probably invalid.
- D. We conclude at this point, therefore, that most of the data of observation are worthless because their validity is indeterminate; some of the data of observation are now known to be

Invalid and are therefore worthlow; in a few cases the data are properly validated. In addition to the fact that data which are invalid are necless as a basis for further scientific work, the methodological inadequacy with respect to the conditions of observation in such as to make the repedition of observations for the purpose of checking their necrosery and reliability almost impossible. In order that one investigation may repeat and check the work of another, it is necessary for the conditions of observation to be uniform. The inconsistent findings which have been reported caused; therefore, be interpreted to mean that later invastigations have checked and corrected englise investigations, but rather that the investigations have been exactly the interpreted to be under disparate and incomparable conditions.

- 9. The Validity of Statistical Interpretations of the Data of Observation.
- A. Invalid data or data lacking determinate validity should not be amployed as a basis for statistical inference.¹⁶. In the further discussion of the conditions prerequisite to statistical inference we shall assume that the data are valid products of observation.
- III. With a few exceptions, the findings of the researches which have been surveyed are expressed either in terms of averages or percentages. An average may, of course, be nothing more than a statistical description, that is, an index which can be used to summarise a collection of numbers in a certain way. An average computed in this way states knowledge about a particular appropries of individuals, which is a sampling room a universe of individuals. The sampling may be too small; the sampling may not be a fair homogeneous selection.
- It is always necessary therefore to determine the itraits within which the true average, expressing knowledge about the universe from which the sampling was taken, will must probably it. This detarmination is expressed by the standard source of the average.

¹⁹¹⁷ has does not mean that stabulated processes cannot be need to detect the invalidity of data of characters.

The standard error depends upon the number of cames used and the variability of the distribution. It can be interpreted as a statistical constant owly if the manpling can be assumed, on other graineds already known, to be fair, random and homogeneous. It is a measure only of the margin of error is an average, which can be considered due to instructions in the ampling. It does not measure the fairness of the numpling. Whereas the obtained average is merely a statistical description, the true average is a product of statistical informace.

In almost all of the work under discussion, obtained avarages or percentages were employed as if they over true coverges. This indicates the worst kind of statistical incomprehence. It is a most elementary rule of statistical practice that averages should always to accompanied by standard deviations and measures of frequency, from which it is readily apparent whether the standard error III so large as to make the average amounted. In only a few cases did investigators qualify the obtained average by the appropriate statistical riskiess. There is no evidence, moreover, that any of the investigators examined and tested their samplings for fairness and homogeneity. Obtained averages cannot be used for statistical inference unless these criteria are independently satisfied.

O. Much of the research depends upon the comparison of averages or percentages. The significance of the differences do rived from such comparison is limited by the fact that these differences are innecesspassical by any measure of the reliability of the differences. A difference between averages and percentages, anaccompanied by the profinable error of the difference, is of little significance; yet that is preclasely the way to which the research indicings are preceded. It ill also importance, when considering two averages for the purpose of comparing and differentiating groups, to determine the standard deviations or variabilities needed to qualify the obtained averages. Two distributions may

¹⁸⁸For an adequate discussion of these minimum, see G. Uthory Yale, a), rat, Ga, XUI, and XVV, and F C. Miffet, ay, cat, Ga XVV, during units statistical arrive too and the problem of simpless.

be similar with respect to their averages but have outlrely different ranges of variability. The reverse II also possible, so that one may have differing averages but considerable overlapping in the distributions of the groups being compared.

D. In a few cases we the investigators attempted to employ a alightly more complicated statistical derice than on average or percentage, such as a messure of correlation. Correlations, like averages, are merely statistical descriptions, referring only mediac samplings unless they are properly corrected and qualified. The few inventionators who have employed methods of correlation have not performed these operations in a manner to indiente the significance of the correlation. Few if any III those investigators have recognised the technical limitations of the coefficient of correlation; they have not always realised, for instance, that the correlation technique is applicable only to nonselected distributions, and that in dealing with discontinuous distributions, it is necessary to consider special criteria of the applicability of correlation formulae. 844

The statistical indices which have been employed have been tetrachoric ris, coefficients of association or coefficients of pontingency. These coefficients can be intersected only in terms of some prior analysis of the data that is being oversted upon.18 Huch interpretations have not been given; nor could they be given in the absence of theory or analysis in the field of criminology.

¹⁶⁵ See the work of D S Thomas Garne, Burt, Lond and Storage, ductood

¹⁰¹See T. L. Kelles, as cal. Ch. X.

¹⁹⁹⁸be T. L. Kelby, sp ed., Ch X.
1999be have already possisted out that carellicents of carrelinance are unique to prepare a new survey of functional relationships. But northee of them constants can be finely before the special constants and the fingulations, and environmentally different distinguistics. In the final care of the constants of the finite transplage. J. M. Keyans has clearly beausibled the constants of the distinct out considerable that the constant of the finite constant of the constant of the constant of the constant of the finite constant of the constant of the present of the constant of the constant of the constant of the particular logues, the calculation of a small simple of correlation coefficients; that is not particular logues, the calculation of a small simple of correlation particular graphs of the constant of the particular logues, the calculation of a small simple of correlation; that is not say, we must have before on, an order to find a substitutely stepanonic, many sets of their variation of which the questionist mentions of simple or singularized stability in the minist of variation in the non-ministent of the different sets of discrepancy.

- E. In conclusion of this point we can my that criminological research exhibits a naives and incompatence in the use of statistics so great that almost all of the statistical products, even in the simplest cases, are havalled or imagnificant except as statistical descriptions. In those few cases in which coefficients of association or of contingency were employed, the results of correlation were further readered imagnificant by imadequacy in the employment of control or camparatum groups, and by ill-defined units of measurement. Just as an average depends for its significance upon the nature of the sumpling, so an index of correlation depands for its significance upon the nature of the sumpling, so an index of torrelation depands for its significance upon the comparability of the assemblages correlated.
- 3. The Conclusioeness of the Researcher With Respect to Their Problems.
- A. In order to discuss the ability of findings to yield conclusions relevant to the problems of research, it is necessary for us to sames that the date are valid observationally and that they have been properly interpreted by stellatical means. If the data of observation are not valid and if statistical inferences have not been correctly made, it is, of course, superscopatory to sake whether the data have visibled relevant conclusions.
- B. All of the problems \(\mathbb{T} \) which these researches have been directed involve the differentiation of groups of individuals. The amployment of control or comparison groups is, therefore, indispensable to the solution of them problems. The significance of the percentages, averages, coefficients of suscitation, etc., derived from the observation of groups of individuals, depends upon the comparability of the groups employed. It is, therefore, a serious criticism of these researches that almost all of the early investigations intled completely to use control or comparison groups. The data of such researches are completely issignificant and inconclusive with respect to the problems of differentiation. But even the later and better investigations, which recognized the need of control and comparison groups, for the most part fill this

need inadequately. The groups selected are usually not comparable.

C. We must, therefore, point out that the findings which have been reported are tasignificant not only statistically but also in terms of their inability to yield conclusious relevant to the problems of research.

To the foregoing criticisms which amplain why these researches would be inconclusaive, even if the data were raifd, we must now add a final criticism of another sort. We have seen that we are not able as a result of criminelogical investigation to solve the problems of group differentiation. Any investigator who would attempt to derive an answer to these questions from the findings of any research which has so far been done, would be clearly in error. How much move agregious than that is the error of those invastigators who have attempted to draw effoliagical conclusions from these findings.

Even if we knew that eximinate could be differentiated from non-riminals in terms of some set of definite factors, we would not know the eciology of eriminal behavior. To solve the eciological problem, not only must factors be distinguished in dependent and independent variables, but we must have knowledge of the interrelation of the variables with each other. We must limable to isolate and control sub-asts of variables within the total set of variables. We must know whether or not a given set of variables exhausts the field of reference factors.

In short, in the abstace of a theory or analysis, ethological problems cannot be formulated, and bence research cannot be directed toward their solution. Similation processes by themselves cannot perform the service which is the ethe of theory and analysis. Correlations are not themselves significant but must be interpreted, and their interpretation cannot be accomplished in the abscuce of theory. Theory is even medical in order to determins the applicability of statistical techniques to the data. ¹⁸

 $^{^{126}\}mathrm{Thm}$ point a discussed by B. S. Thomas at Satistike at around research. A.n. J. Social., 1985, 26, 1–27.

The absurdity of any attempt to draw cticlorical conclusions from the findings of criminalspical remarch, is so patent as not to warrant further discussion. Yet the number of instances in which this has been attempted in amusingly large. It is, furthermore, a striking commentary that these attempts have been made by the less rather than by the more competent investigators. The best nices of research have been done by men who have more or lass explicitly recognized the inconclusiveness of their findings with respect to their own research problems, and the entire inadequacy of their research with respect to problems of sticlogy. On the other hand, investigators who trave done trivial and glaringly defective research have been ready to draw easy conclusions therefrom and have had no hesitancy in voicing what can be treated only me the shallowest spinions about the causes of crime. In addition to all of the methodelogical defects which have been anumerated, these investigators have felled to recognize that both human and environmental variables are necessarily involved in the etlology of human behavior." That failure alone would ill sufficient to render fallacions pay conclusion about the causes of orims, which they have drawn from data which has no etiological significance. The essurance with which criminologists have advanced opinions regarding the causes of orime is in sirileing contrast to the worthlessness of the data upon which those oulnious are based. 200

NPThe messa dot only that a phenkiny of factors will be decovered in the casual background but that among them well be factors on both locals. It will be readful that by an agentan on amona the interpretation of descriptive knowledges in controlled that by an agentan to amonate department. See pp. 58-79,

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Chapter VI

RESEARCHES IN TREATMENT

Section 1, Preliminary Discussion: Problems and Methods.

As we have abrendy pointed out, the experention of researches in treatment from lawarigations of the causes of criminal behavior. If arbitrary and is justified only by convenience. The study of the treatment of offenders is a special case of the study of the causes of criminal behavior. It is distinguished as a separate case by the fact that in all the researches which we shall survey in this chapter, some mode or aspect of the treatment process is considered as a factor in the behavior of either potential or actual criminals.

The treatment process is merely one of the environmental factors, which may or may not be found to have etiological significause.

The treatment process can, of course, be studied without any relation to the behavior of potential and actual cruinnals, but such studies obviously would have an relation to the general problem of countains. They are therefore discussed elsewhere. It must also be pointed out that we are here concerned only with its treatment of actual offendame, by which we mean post-conviction as upposed ID pre-conviction treatment, that II, the treatment of individuals suspected or accuracy of crimes, may be studied as a factor in relative to criminal behavior in the same way as pass-conviction treatment, but no studies of this sort have yet been made. These which have been made are studies of the pur-conviction process in relation to rade of criminal justice other than the reformation of actual offunders

¹See Chapter IX 1See pp. 35-35, super.

and the deterrence of potential offenders.² Since we are concerted in this chapter with an examination and criticism of completed researches and since those researches deal archarterly with post-conviction treatment, we shall use the word treatment throughout this chapter to many the treatment of actual offenders,

The treatment precum can be considered as an environmental factor in two distinct ways. In the first place, the treatment process constitute of different modes of treatment, such as whipping, accountion, deportation, imprisonment, production or parolin. Each of those modes may furthermore have suary different varieties; that is, there way be many different bisds of institutional practices, all of which can be called imprisonment; but whether we deal with the mode or some variety of it, treatment in this first sense always means a mode of treatment prescribed by the freatment content of the criminal law.

In the second place, the treatment process consists in III of the specific acts of efficials in the application of recognised modes of treatment to particular offenders who cause within their range of official behavior. The same mode or the same variety of a mode of treatment may be executed differently by different officials at different times and places.

It is important, therefore, in examining the researches in this field that we note in which of these two quite distinct sensor treatment is being stadded. Almost all of the researches, as we shall see, employ some designated mode of treatment as the factor to investigate. Prev. if any of them, distinguish between varieties in the same mode of treatment. None of them study the treatment process as the behavior of officials. What the treatment process is in any given sindy should, of course, be precisely defined. It is one of the variables and unlass it is precisely defined. It is one of the variables and unlass it is precisely defined the data of research councils with the data of research councils.

⁴ See Chapter IX. There have been descriptore statues of verrous returnantialities employed on pre-curvelows involuted, on the lases of which corosinguists have found cannot sense opened on regarding the administ of versions aspects of pre-convergoon irreplaces; upon the believer of three who are reliquided to it. See, for example, I F "Shahasi, Cartificials of rame. Haw Yard: Campoplia Pres. 1923.

Another distinction must be made between the study of the treatment process in relation to potential offenders and the study of the treatment process in relation to actual offenders. The treatment process can be an environmental factor in the biography of potential offenders only to the extent that they learn in some way, either by contact or by bearing, of the treatment process. This is a very indefinite suspen, but it is the best that can be given to the present state of our knowledge. Il flows the aboutd-Ity of studies of the treatment process as a factor in the behavior III potential criminals. Not only are we unable to define the produce status of the treatment process as a factor in the bahavior of potential criminals but, as our curver of rescarches in causation has already shows, we do not know whether the class of potential offenders is known sensors or beterogeneous with respect to other relevant fectors; we do not know what these other relevant factors are; and we do not know whether the class of potential offendam can be differentiated from the class of notical diffenders in terms of any set of factors. We must, therefore, recognise that in the present state of our knowledge II is impossible even to formulate in the crudest way the problem ! the relation of the treatment process to the behavior of potential offenders. We shall subsequently discuss the precise nature of those studies which are supposed to be directed by this problem, which cannot even be stored.

The treatment process can be studied as an auvironmental futor in the blographies of actual offeaders. Resourches of this list are supposed to be interested in the causes of rectificiant or the differential effects of different modes of treatment upon the offenders to whom they are applied. The problem of the causes of rectifician differs from the problem of the causes of the criminal behavior of first offenders primarily with respect to the involvament W the treatment process as a factor; but that does not mean that the freatment process is the only factor to be studied. It is merely one of a large number of savicoumental and munu factors in terms of which it may or may not be possible to differentiate reclifficials from non-recidivists. The probable to differentiate reclifficials from non-recidivists.

lem of differentiating recipivints from non-racidivists in, as we shall see, strictly analogous to the problem of differentiating criminals from non-criminals.

It was above in the previous chapter that researches supposed to be concerned with the enums of crime could not be so considered because ediological problems cannot. If present be formulated. The only questions which could be framed in order to interpret the researches were questions about group differences. So here, we must similarly formulate the problems of the researches we are about to entropy. They are not the problems which the investigators themselves supposed to III their objectives, that is, the deterrent and reformative effects of the treatment of offenders.

Before attempting to state the problems of research in this field, it I advisable to point out that the knowledge yielded by these researches is not scientific. Ill is descriptive knowledge. and consists either in non-questitative or essentitative descriptions. The non-quantitative descriptive knowledge reports the characteristics and elements of various modes of treatment and the subscinent behavior of offenders to whom they have been applied. We have such descriptive tracwledge chiefly of the different modes of treetment, but not of all their many varieties. We have little descriptive knowledge of the behavior of officials. We shall not survey the mem of non-quantitative descriptive knowledge of the treatment process for the same reason that we did not survey non-quantitative descriptive knowledge in the previous chapter. The chief value of this body of knowledge is, first, that I indicates differences among varieties of the same mode of treatment, and, second, that it affords materials which can be used in the definition of the treatment variable in unantitative research. That the treatment variable is not defined in most of the quantitative research which has been done is partly due to the lack of sufficient knowledge of the varieties of modes of treatment; but it is also due to the failure of investigators to appreciate the necessity of analyzing precisely the nature III the mode of treatment being coupleyed as a factor in their research.

The quantilative knowledge which we shall survey consists in measurements of what are supposed to be effects of the treatment process or in measurements of various factors which are supposed to be related to the treatment process and its effects. By calling this quantitative knowledge descriptive, we mean that it lacks one or more of the indispensable traits of scientific knowledge. It does not consist in general propositions which formulate correlations of variables; when at its best, this knowledge takes the form of statistical indices of correlation, but these indices are no more than statistical descriptions.

We are now prepared to formulate the problems in terms III which the research data can be interpreted. It I important to distinguish the problems we shall formulate from the problems which are supposed to be the objectives of research in this field. The latter can be stated in two ways: (1) What are the deterrent effects of the treatment process? (2) What are the reformative effects of the trustment process? By determent effects is mount the causal infigures of the modes and varieties of the treatment process upon potential criminals; by reformative effects is meant the causal influence of the modes and varieties of the treatment process upon actual estiminals. These two questions constitute an eticlogical problem. But is il a problem which we cannot formulate in such a way that remerches can be directed by it. or that data of research can be interpreted by reference to it. As previously pointed out, so science of human behavior now exists, not do the sciences of paychology and sociology moon which such a science depends now exist. It is impossible in the absence of any theory or analysis to formulate problems in the etiology of human behavior in such a way that they can be used in the direction and interpretation of investigations.

The previous chapter reveals that at present we have absolutely no knowledge of the causes of eriminal behavior and that, furthermore, the researches which are supposed to investigate the causes of human behavior caused he so construct. They must be considered as kawing bees directed by such questions as can criminals be differentiated from mor-reiminals II issues of some act of factors? We do not even pursues knowledge which conclustively answers this type of question. This unifican to show that we cannot now investigate the determent or reformative offects of the treatment purcons. Each investigations would have to assume that criminals can be differentiated from non-criminals by reference to the treatment process alons or in conjunction with other factors. This assumption is unwerranted.

The most striking way in which it can be shown that researches in treatment have no significance with respect to the problems of deterrosce and reformation, is by an enumeration of the quantions which can be answered as a result of these researches. We can wiste five questions and is such uses show that our ability to enswer these questions does not in any way annihs us to answer questions about the deterrent and reformative affects of treatment.

1. What is the crime rate or what are the rates for specific crimes in given communities, either contemporaneous with or subsequent to the application of a given mode of treatment? The awkwardness in the phrasing of this question is measurer to avoid saking what is the relation of given modes of treatment to general or specific crime rates? This question assumes that there is a rate of an about the nature of the relation. But this assumption cannot be made. We do not at present know that there is any relation whateverse between the volume of crime or of particular crimes and any particular mode of treatment.

The question we have formulated in the operation which researches supposed to be interested in deterrence, are able to answer. However, to conclude from knowledge of this sort that a given mode of treatment either has or has not any deterrent effect upon potential criminals in to ensumit the almost inexcusable fallacy of post-hos ergo gropher hos. We shall see that the knowledge which assumes this quantion in of debtous validity, in addition to having no etiological significance whatsoever.

2. What is the rate of recidivism for a group of individuals to whom a given mode of treatment has been applied? Most of

the researches which are supposed to be concerned with the reformative effects of modes of treatment do no more than answer this specific question. It is clear that, even were the knowledge which answers this question valid, it could not be used as a bards for any conclusion about the reformative effects of a mode of treatment. We do not know that there is any relation between racidivism and the treatment process. We do not know whether or not actual criminals can be differentiated into recidivists and non-recidivists by reference to any factor or group of factors. Our knowledge, therefore, of the rate of recidivism in a particular group of actual criminals treated in a certain way is totally insignificant at present. As quantitative knowledge it does not even have the generality possessed by statistical inferences; it is marely descriptive in the sense that He reference is entirely restricted to the groups of criminata studied by particular reservebos.

- 3. What are the comparative rates of recidivism for groups III criminals to whom different varieties of the same made of treatment have been applied? Only a few studies have sought to answer this exection. Parthermore, the only mode in troutment, varieties of which have thus been compared, is imprisonment. This question can be formulated in snother way: Our difforent varieties of the same mode of treatment in differentiated by reference to rates of recidivism? Even if this latter question were answerable, the answer could not be interpreted to signify differences in the reformative effects of different varieties of the same mode of treatment, because rates of recividism are not by themselves measures of the reformative effects of treatment unless it can be assumed that treatment in the only fact relating to recidivism. But this clearly cannot be assumed. Therefore, even valid answers to the question under consideration would have no eticlogical significance whatsoever. As we shall show, however, it is doubtful whether this question has been validly ABSTRACT.
- E. What are the comparative rates of recidivism for groups of individuals to whom different modes of treatment have been

applied? Only a few studies have attempted to newwor this question, and they have been exclusively concerned with the comparison of imprevement and production. The analysis of this question is the same as that we have just given for the previous question. Even if we had knowledge which validly answered it, which, as we shall me, is questionable, such knowledge would tell us making about the comparative reference of excitivism is not a meetic of tentiment, became the rate of recitivism is not a meetic of tentiment, for an about the comparative modes of treatment. It can be added also that the quantitative knowledge which has been gathered in answers to exostious 3 and 4 countries ill best of statistical descriptions, so you have case of question.

S. Can a group of paroless be differentiated into sub-groups of successful and unappressed in persistent persistent of successful and unappressed in the processor of which seeks variety of imprisonment is only one? Etudies which seek to answer this question are naturally called researches in parole prodiction, because if the question can be answered the answer can be used, it ill stooght, our a basis for predicting whether a given type of effective will or will not be successful un parole. Parole successful un parole parole successful un parole for the period parole successful un parole for the period parole successful un parole successful parole successful un parole successful par

This fifth question can be man to be strictly analogous to the discriminal which we formulated in our discounter of restaurches in causation. It constitutes a problem in the differentiation of groups by reference to factors whom relevance to the differentiation trust be shown. Unless the precise nature of the relevance of varieties of importances as a factor in the differentiation of successful from unswercessful paroless can be determined, the answer to this questions cannot be used as a basis for determined, the answer to this questions cannot be used as a basis for determined, the studies which have been under attempt the differentiation of successful from unsuccessful puroless in terms of use or more factors. They also attempt, but do not successful from unsuccessful puroless in terms of use or more factors. They also attempt, but do not successful from unsuccessful puroless in terms of use or more factors. They also attempt, but do not successful from unsuccessful puroless in terms of use or more factors and the successful from unsuccessful puroless in terms of use or more factors and the successful for the precise significance of the factor or group of factors essentially the precise address as contributing knowledge of the referensitive effects of

varieties of impresumment. In addition, it is questionable whether the data which have been achieved have generality or whether their significance is attrictly limited to the particular groups of paroless which have been studied.

It is in farme of these five appendions and not is forms in the problems in determine and reformation that we shall estimate the significance of the data of research. Inspection of the researches will substantiate the statement that they afford absolutely no basis for any conclusion about either the determine or the reformative effects of modes and variation of treatment.

The specific methods copleyed by investigations seeking to answer one or another of these div questions are the sume as those employed in researches the cases thou sumely, the test method, the case introry method and the cases method. Almost all of the investigations, however, have send only the casess method. In fact, it can be said that all researches which can be grouped by reference to questions 1, 2, 2 and 4 send only data achieved by the commun method, beak crime rates and rates of rectilities. It is only the group of researches interested in the differentiation of successful from unsuccessful paroless, which supplements cannot fats by quantitative data obtained through the next of either the test or the case birtory method. The best researches in this field, as in the case of canastion, combine all three methods of obtaining data.

In our survey of investigations of the treatment process, presented in the following section, we shall criticise the data with respect to their validity and significance; and in Section 2 of this chapter we shall make a comprehensive evaluation of the researches surveyed. It is advisable, therefore, to state heldly here the criteria upon which our criticisms and evaluation rest.

The conditions of validity of data of observation are the sums here as in the studies surveyed in the previous chapter. The items of observation must be defined precisely; measuring instruments and human observers must be tested for their scoursey and reliability. But most of the data in this field of research are data gathered by the censure matched; and therefore the question of

the validity of the data becomes a question of the validity of the sources of the canons data. Suffice it here to my that crime rates are notationally inaccurate and unreliable. The accuracy and reliability of rates of racidivism are impendable in the same sense.

The conditions underlying the sintletical interpretation of date of research are also the same here as in emastion. Obtained percentages and averages and coefficients of correlation are merely statistical descriptions unless they are qualified and corrected. It is highly questionable whether the date gathered in this field would permit precesses of qualification and correction. It can be pointed out here that, with the exception of a few researches with respect to success or failure on parole, the only attaintical indices unphysed are obtained averages and percenages. In those exceptional researches which use coefficients of correlation, the applicability of such statistical operations to the data must be agrantical.

Finally, there are the conditions underlying the significance of the data with respect to the problems of research. The first two problems require no analysis: they are almple questions which the researcies either do or do not answer. But the third and fourth problems require that investigators simpley comparable groups in order to obtain data which will be significant. In order to compare different varieties of the same mode of treatment or different soules of treatment with respect to rates of rectifivism, it is necessary that the different groups of effendess he comparable in the same that they be homogeneous with respect to all factors other than the treatment factor. Furthermore, unless the treatment factor is precisely defined, it will be impossible to report the investigation with other groups of effendess at other times; and the data can therefore here the status only of statistical descriptions.

In order to achieve data which will be relevant in the solution of the fifth problem, properly selected control groups must be

⁴See Chapter IX, infra.

employed, and each of the various factors which are studied in relation to success or failure on purels must be precisely defined.

We are now prepared to examine the researches thannelves. We cannot use the same procedure we need in the survey of researches III consultain; we shall not group those researches under the head of the method which they employ, but rather by reference to the specific question which the researches can be desmed to onswer. There are, therefore, alter groups of researches. The first group represents what are supposed to be researches on the daterrent effects of treatment; the commissing four represent researches on what are supposed to be the reformative effects of treatment, but for reasons already gives we shall completely ignore the concepts of deterrence and reformation in relation to the five specific questions under which they are grouped.

Section 2. A Burvey of Engirical Studies of the Treatment of Offenders.

I. What is the crime bate, or what are eath for effection chimes, either contemporations with or energy to the application of a sites most of treatment?

The following examples are representative of empirical invastigations solich are supposed to determine deterrent affects of rations modes of treatment. We after them not in that light, but as researches the data of which assess the above question.

That the imprisonment for life of habitual offenders in lacking in deterrent effect is supposed to be evidenced by the report of surety companies that leaves by laurgiary and robbery were much greater in 1928 than in 1928. Evidence to the contrary is affered in the form of reports that after the Fourth Offenders' Act became effective in New Yark, the number of burglaries and robberies and the financial leaves from such crimes greatly de-

FE. H. Statherland, Report to Cohendric Communication Survey, Massacrips, 1990, p. 69.

creased. These searctions are not based span careful empirical work, but even if they were, it would be difficult ill interpret tham stroffcantly.

Statistical studies have here made of the deterrent offect of the death pennity, as the result of which it has been asserted: (1) The homicide rate is higher on the average in states which retain the death penalty than in states which have shollahed it, and higher on the average in states which have shollahed it, got higher on the average in states which have shollahed it, (2) European constring which have shollahed it have, on the average, lower housicide rates than the adjoining countries which have retained it. (3) States which have shollahed the death penalty have subsequently had no ususual increase in the houtcide rate. (4) When, shout a century age, other penalties were substituted for the death panalty in the case of a large number of offences, the rates of conviction for those offenses did not increase."

On the surface these station occur to indicate that the don'th penalty is inferior to life imprisonment as a deterrent, but, as Sutherland has pointed out, a careful remainstain of their statistical procedures produces akepticiona regarding the Whole array of "figicia". The homiside rate ill very inadequate as an Index of the nunder rate. The deterrent effect of the destrip enalty arises not solely from its presence on the statute books, but also from the degree to which it is used. The number of other variables which these comparisons have ignored in extremely large. The figures themselves do not full whether the lower homicide rate in the effect of the nebilition of the death penalty or the cause of the shoultion of the death penalty or the cuts of the should be sufficient of the death penalty or the control to the state of the general endowering of the proposition.

^{*}Report of the Crime Communion of How York Allinny 1922, yp. 8-12; New York Island on not so bed now. Saturday Bucong Post, March 25, 1927, 34; Literacy Depart, August 6, 1927, 12

TE R Calvert, Capital puroducent on the ingreduals containy. London G. P. Pettanin's Sons, 1927; R. T. Rye, Capital pure-innent in the United States. Phylic.: Committee on Phylanthropus Lubor of Front. Young Meeting of Frenchs, 1918.

*Sutherhand. Commissions. 30: 327

Some meagre evidence has been obtained as to the deterrent effects of probation. There were more crimes of dishonesty per 100,000 of the population in 1908, the year following the passage of the English Probation Act, then in 1925." The English courts which use probation in cases involving affences against property more frequently then the guerage of all English courts, have, in general, lower rates of conviction for dishonesty than those which use probation less frequently than the average. When the English courts were arranged in a regular series with those that perprobation in the largest proportion of cases at the top, and those which use it least at the hottom, the upper quartile showed an increase in convictions for dishonesty from 1924 to 1925 in 20% of the courts, while the lowest quartile had an increase in convictions in 65% of the courts.10 This evidence is not conclusive because of the short period covered and the large number of other variables that may be involved, but, as Satherland suggests," it is an illustration of a method which may be useful in a more genaral attempt to appraise the deterrent effects of probation.

In 1915 there were 29,380 cases of crimes against property and person in the lower courts of Manuschneetts, whereas in 1828 there were \$1.435 cases pending.15 This decrease of 7.556 has been attributed by Tannenbaum's to the decrease in commitments to usual institutions and the concemitant increased use of probation, but, as Bates suggests, the decrease may be due to increased. afficiency on the part of the judges and charitable organizations. And, of course, still other factors may have accounted for the decrease, such as a diminution of the efficiency of law enforcement agencies as a result of the World War.

II. WHAT IS THE BATE OF ESCENTIAN FOR A GROUP OF OFFERDERS TO WHOM A OWNER MODE OF TREATMENT HAS DEED APPLIED?

K. C., The criminal statution of 1985. Housed Jacoust, 1987, 2, 115-119, 14 July

[&]quot;10 per la company de la compa

- III. What are the comparative rates of reduction for each; of opposition for the same dependent values of the same and and more present values of the same applicable.
- IV. Wrat are the comparative ratio of emembers for groups of opportunities to we compared models by teleathers have are applied?

Since in a great many cases the data of a given piace of research are used to answer more than one of the above questions, it is convenient to report the remarches in a single group. The discussion of a given piace of research will shape indicate to which of the questions the data are relevant.

(1) Justice Court. The juvenile courts have claimed that a comparatively usuall proportion of their cases became residiviate, and not over 25%. The Judge Baker Foundation's reports that 29% of the delinquents who had appeared in the Boston Juvenile Court in the year 1911-1912 were returned to the Court during the five-year period 1911-1916, and that 1.25% were returned five or more times. Cooley* found that of 2,957 offenders arranged in Court of General Sections in 1925-1926, 53.9% were making their first appearance is an adult court, and that, so far as known, 3.5% had not previously appeared in a juvenile court. Of the 145 mea committed to prisons and the reformatory in New York in August and September, 1926, 4.2% had appeared at least case in a juvenile court.

Healy and Browners' have worked in the field of jevenile delinquency for more than twenty years, and they have published a study of 4,000 jevenile offendens in Chicago and Boston. The data which they have collected have been made the basis for an evaluation of the reformative efficacy of the investile court. Thus,

¹⁴Jurige Baher Foundation, Pub. 1, Harvey Remainey Juder. Boston, Mass.; Judge Baher Foundation, 1928.

¹¹Probation and delogating New York; Callaghe Courses of the Architecture of N. Y. 1927, pp. 86-47.

¹⁰Spin-Commission on Cames and Wiferin of Cram. Individual studies of 165 offenders. Albany: The Crim Commun. of New York State, 1976, p. 22.
¹⁰Delagrants and criminals. New Tark: The Microfille Co. 1986, p. 28, 3.

as evidence of the failure of the juvenile court, E il pointed out (1) that of 675 juvenile recitivists in Chicago, 55% had records of vice and crime after juvenile court treatment, and that of the 266 male offenders in this group, 15% became professional criminals and 5% committed homicides; and (2) that of 430 boys who appeared in Chicago juvenile courts, 268 lates sureed up in the solutions.

However, the more immediate purpose of Realy and Bronner was an compare pursuable definingmency in Calcago, and in Boston. Of their 4,000 javes, 2,000 were taken from each city. Among the items which they compared were the javestic courts ill the two cities. The Roston court had four times as many cases in proportion to propulsion as the Chicago court.

The significance of such studies is desicted, either as indicating the reformative efficacy of the jovenile court as a method of tracting juvenile offenders or as indicating the comprastive efficacy of different javenthe courts. While the juvenile court may be regarded as an issuitationalised form of dealing with delinquents, if offencer cannot be determined by accertaining the after-current of delinquents who have appeared in the juvenile court. It cannot be resolved either that if the proportion of delinquents who become recidirates is small, the proportion of delinquents who become recidirates is small, the proportion of a significations. There are too many other factors which might account for either result. Moreover, the juvenile court contintes an autremely complex mode of treatment. The methods employed by a single court vary widely, and those amployed by different courts in different courts in every examples.

For example, of 256 male failures in Chicago, referred to in the study of Mealy and Browner, 36% had been committed as juveniles, and of 164 successes, 58% had been committed. Juvenile court treatment which includes commitment to an institution is obviously a different method of treatment from that which does not include commitment. And it is difficult to draw any conclusion from the fact that of 311 hoys committed, 70% were failures whereas of 150 who were not committed suly 34% were failures. There are too many factors unaccounted for. The committed boys may, for anample, have constituted the more difficult came and for that and other reasons the two groups may not have been strictly comparable. These agures may indicate only that the more sections the delinquest's offense and the more difficult the delinquent, the more lakely he ill to be sent to un institution and the more likely be is to repeat his offense after he la relessod.

The only way in which the effects of different tyous of trantment of young offenders by juvenile courts can be measured is to salact two groups comparable for age, mentality, sprironment, etc., and to compare the results in the case of the delinquents who were committed to institutions with the results in the case of those who were not committed. As Dr. Thomas says, "We have an yet no adequate test of the relative success of invilintional and non-institutional treatment for the same type of offender,"in In the same way comparative studies of different juvenile courts cannot be significant if differences in their methods are ignored. Thus, Healy and Bronner's attudy fails to farnish us with a measure of the comparative officers of the Chicago and Boston courts because of the great number of variables that were uncontrolled. While the Boston court had a disprepartionately large number of cases, a rast number of delinquents were dealt with in Chicago by police officers who were especially assigned to deal with juvanile offenders. In other words, in some communities cares are handled by social workers and the police which in other communities are brought before the court. At the least, a measure of the efficier of the invenile court, to be significant, must be based upon a comparison of a community with developed juvetile court methods and a community with the older method of dealing with juvesile delinquents.

There have been a few studies of the efficier of reform schools. De Las Heras's remorts that less than 20% of the lumstee of the

¹⁸W I. Thomas, Report to Columbia Crimonilogical Survey, Manuscript, 1930.

reform school of Hemores became recidivists in spite of the fact that there is no indeterminate sentence or provision for supervision after release. Schöder²⁸ reports similar success for the Whittier School for juvenile delinquents in California; about 80% of the cases on placement are, according in Collow-up reords, reformed during the first four years after leaving school.

(2) Whipping. Whipping is a pusitive measure in the state of Delaware. Census figures for the year 1984 show that of 461 coffinders whipped in that year, 1875 had been whipped previously, and 4% had been whipped previously two or more timas. In England, where whipping H size practiced, 35% of the jovanile delinquents who have been birched response in the court within thirty days, and over 18% within two years. More offenders response after this pensity has been sufficied then after any other method of treatment. This, however, is doubtless because while ping is used only in the case of the delinquents who are regarded as most victous. Have we have a good example of the ambiguity of settimates of the afficacy of sections of treatment hand upon commun figures which are not supplemented by other relevant data.

(3) Fixes. 25% of the persons fixed in Springfield in 1913 were arrested later during the same year, and 13% ware again convicted. The Springfield array cumultize concluded that fixes were superially ineffective in dealing with cases of prostitution, keeping disorderly houses, reasoning gassbiles bouses, drag addiction, etc. 2% of the effective in Massan City who were given an opportunity, during the fixed year ending April 21, 1812, to pay their times in installments were charged with subsequent crimes, as compared with at least 25% of all the cases brought into court.

PTDs costagion of a good community. J. for Hos., 1939, \$3, 239-261.

^{**}Correct Literature, 1905, 33, 492-483

PC Burs, The young delegant: Landon University of London Press, 1925,

MZ. L. Fotter, The coverchand system of Sycingfield, IE. How York: Remell Sage Foundation, 1915, pp. 28-30

^{*}Chicago Mencipei Beliovone Liliany, The papernt of fines in hatallacets by offenders. Chicago Chicago Phills Library, 1994.

(4) Imprisonment. About 47% of the persons committed to jule and workhomes in the United States In the first six months of 1923 had been previously committed. This involves some duplication of cases; but, on the other hand, the previous criminal record was not accessible in a large proportion of the cases, and It is probable that the proportion of offendors who become racidivista after imprisonment in closer to 75% then 50%." 59.8% of all persons committed to prisess in Museuchusetts in 1927 had records of previous commitments, and the average number of commitments wer 5.62 per recidivint." The more intensive studies of prisoners in the United States show that about two-thirds of them are recidivists." The proportion of recidivists in England and in Germany is about the same as in the United States. 70% of the persons confined in English prisons in 1927 had been convicted previously; 49% had been convicted three or more times: and 28%, elevan or more times."

The Glusckett have made an intensive study of the original careers of 500 offenders who acryed terms in the Massachusetts reformatory. They found that 63.8% of their cases committed serious offences either during the parole period or during a fiveyear post-parole period; that as additional 20.8% committed minor offenses either in the perole or peet-perole period; and that only 15.7% had no eriminal records following their release from parole. However, the data for this group of 500 cases are spaceptible to another interpretation. Prior to incarcuration the antire group had committed a total of 1.450 serious crimes. They committed 413 serious crimes in the post purole period, only one-third as many as before incurcemition; furthermore, among the serious crimes in the post-parele period, 25% were classified as "escape or rescue, funitive from fundice, desertion, or dishonarable dis-

³⁹ Department of Commerce, Bureau of the Green, Processes, 1965 Washinston .

Commerce on commerce, presents of the Cassan, Prisoners, SEC Washington.

Gerenmont, Printing Office, Philips. 310-131

"Midds, Autoria report of the Commensure of Correction for the year unfleg.

NO 30, 1927, 3 107

FIR. Gleeck, A study of 600 administrate to Sing Sing prison. Ment. Hypbox, 1938, 2, 85-154.

Fig. 1, 49-101.

charge from the Army or Havy, and serious automobile offenses". Nevertheless, the Ginecks' study seems to show that the behavior of these offenders after incurrention was not greatly improved, and that the claims which are sometimes made for imprisonment as a reformative agency are questionable.

The Massachnetta reformatory is generally regarded as one of the most efficient correctional institutions in the United States. and it has been defended against the Gluccks' figures on a number of grounds, which we summarise. The period covered by the Ginecks' study was the war and immediate post-war period during which the institution was operating below its usual afficiency. In any swent, no nepsi or correctional institution should be expected to reform all of its immetee, since many of them have proved to be recalcitrant to all other social institutions and influences. All of the offenders in this study had committed serious crimes before incarceration, and the proportion that committed serious crimes subsequently was only about 50%. The total number of serious crimes committed by the group after release was only about onethird of those committed prior to imprisonment. Furthermore, the fact that the prices to the last institution which deals officially with the offender before his return to crime does not necessarily place on it the responsibility for his recidivism. There are other causal influences operating in the post-parole period, purticularly the kind of reception which the relegaed prisoner receives from the community. Moreover, behavior trescularities after imprisonment do not secessarily indicate that imprisonment has had no reformative effects.

The research of Mabel Killot" is inferentiag in this contaction. She studied 110 white girls committed to Sicigiton Farms, and found that 76.3% of them were "adjusted" ton years after their discharge, although 51% of the adjusted girls achieved their adjustments only after serious sexual missbehavior and 18% more, only after serious missbehavior of other kinds. Thus, 50% of those who finally became adjusted had intervening periods of

^{**}Correctional education and the delargement and Hierarching, Pa.: State Department of Welfern, 1985

moral relapse. It is, of course, by no means clear that the fruittation can be credited with the ultimate adjustment of these girls or that the number who finally became adjusted might not have been greater if they had been treated in some other way.

The Gluecks' study also yielded data relative to the effectiveness of imprisonment with respect to specific offenses. 305 barglaries were committed by the group which they studied prior to incarceration, and only 12 in the past-parole period. 938 Juromies were committed before incarceration, and only 218 in the post-parole period. 80 redderies were committed before incarceration, and only 41 in the post-perole period, 60 rapes were committed before incurceration, and only 8 is the post-parole paried. St homicides were committed before incarreration, and only 16 in the post-perele parted. In general, the crimes ordinarriy regarded an aerious thus decreased very considerably after insurporation. Of the lass serious crimes, 1,884 were committed before incurcuration, and 450 after perole-

Spauldings) made a study of 44 psychopathic delination, woman released from Redford Reformatory. Approximately one-third of them who were alive and could be located were satisfactorily adjusted. The number of cases in very small, and the investigation of the furters responsible for their post-prince careers is not intensive enough to warrant any interpretation of these findings.

Studies have been made of the colution between the langth of imprisonment and recividism. Rargemet concluded from his study of parole that the longer a prisoner resoning in prison, the more likely he is to violate purote when released. Capall reports the contrary finding that in Wisconsin the rates of revidivism after short sentences are higher than effer long sentences. Thus, 13.16% of prisoners confined one year became recidivists; 6.22% of those confined for two ways became recidivists: 3.61% of those confined for three years became recidivists; and 1.27%

blugant warm. New York, Rand McNally & Co. 1983

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of those confined for ten years or more became recidivists. The significance of these figures may be questioned, however. For example, a large proportion of the short term prisoners were drunkards, whose return to erime may have been affected much more by the drinking babit thus by the length of the prison term. Furthermore, those who received longer sentences had less time after their discharge in which to commit facther crimes, alone the study was confacel to a new-year period. Studies of this port which merely correlate length of term with percentages of recidirum units obviously ignore a great nember of elevant variables.

(5) Probation. A study has been made of the efficacy of probation in New York State for the paried 1907-1931. Probation il here defined as suspended sustance with supervision. Of 205,388 persons discharged from probation, 78 8% were discharged as improved, 10.9% were rearrested sill committed, 5.7% were discharged as unimproved and 4.9% shaconded. A study made in 1983 revealed that of 368 males placed on probation in 1915, 36% had subsequent court record. We later matter that a waitable for 21%. The stility of this information is, of course, conditioned upon the value of the category "subsequent court record" as an index of actual criminality and spon the assumptible that the omitted cases would exhibit the same tendency as the recorded case.

Chute⁵⁰ made a study of the New York probation records for the year snding Jane 30, 1817. Of 21,847 probationare, 78% completed probation with improvement, 13% were returned to court for enteries and 8% could not be traced. Cooley⁵⁷ made a study of the relative between probation and delinquency. Ha concluded that 80% of probationers handled by the New York Probation Bureau are likely to become permanently adjusted to

¹⁴Probates at New York State J Crim Law and Criminal, 1923, 14, 188-147; also published as F. A. Mortin, Productors on New York State, Admany State Probation Commission, 1933.

No Mass. Communication on Production, Logality Into the pronunces reachy of probation, Senate Doc. No. 437, 7904, p. 12.

MSuccess of probation in New York J. Crim. Law and Crussed., 1918, 9, 303-304.

MProbaton and delayering, p. 307.

the community. Other probation departments report that twothirds, three-fourths or four-fillin of their probationers behave estificationly while on probation, and that the remainder abscend or are returned to court charged with new crimes or with violations of probation regulation." Of 300 individual placed on probation in Eric County in 1917, 14.3% abscended or were rearrested while on probation or were discharged without improvament at the end of the probation period; as additional 7% was re-arrested during the two said one-bull freuer subsequent to release from probation. However, tes of these were reported to be living in a satisfactory manner at a later data." Of 15,004 paranca placed on probation in England in 1928, only 753 subsequently came up for contenos." However, about half the juvenile dailinguents who are placed on probation in Cardiff, Walas, reappear in court withle Serveser."

(6) Parole. The reports of parola boards assally estimate that about three-upariers of their paroless behave satisfactorily while on parola. Thus, of 11,003 individuals paroled El Indiana from 1887 to 1918, 60.4% were discharged after satisfactory periods of parole; 20.25% violated their parole and of these, 57% were returned to institutions. The New York City police department reports that of 1,658 paraled prisoners placed in its charge in 1816, less than 10% were inspectoned for violation of parola. From 10% to 25% of the violations take the form of new crimes. However, parole officers have so little contact with paroless that the accuracy of these figures is questionable. The Gluecks' found that of the paroless whom they studied, 51 had been rearrested without the knowledge of the purole officers. Furtherrore, the

HSutherland, Report to Columbia Grammingual Survey, p. 199
WThe seed dust. Manuscript, Erne County Positions Association, a d.

⁴C M. C. The crammat statutes, FES Hayand Journal, 1927, 2, 115-119.

[&]quot;Great Bryam, House Office. Fourth report on the work of the dublicals branch.

H M Schnotzey Office, 1923

⁴²Parole in Indiana, during totally-one years. J Crim Low and Orbacool, 1918, 1, 454-55

GL V Harrace, Understang crast Manuscrapt, Ch. 9, p. 14. 44500 crasing carners, p. 178.

reports of parole hounds refer only to the period of parole, and the paroles may behave properly widle on parole but commit further crimes when released from parole. Several investigations have been made in this connection, most of which have concluded that only in a fairly small proportion of the cases do those who have been successful on purcels return ill crime. Note of these studies, however, in multiciently analytic and detailed to warrant any concissions as to the veltue of parole.

Some work has been done on the relation between success on purels and types of off-enders. While slight relationship between success on parels and such factors as seculally, previous criminal record, type of crime and previous work record have been indicated by some of these studies, their conclusions are inconsistent.

(7) Probation and Imprisonment. The records from 1023 to 1926 of 305 persons placed ea probation in 1928 by the Supreme Court of Baltimore, and of 305 convicts released from the Maryland Penitentiary for a period of two years (tacheding the year 1928), were compared." 113 of the probation group and 108 of the prison group were arrested; the probation group had 243 separate arrests and the prison group \$39. 65 of the probation group and in of the prison group were convicted in police courts. 31 of the probation group and 41 of the prison group were touvicted in the criminal court. 63 of the probation group and 42 of the prison group became problems for social agencies. On the whole, the behavior of the probation group was not greatly different from the behavior of the prison group. It is not unlikely that some of the members of the prism group were on parole, and this study might therefore he regarded as a study of the relative efficacy of probation and parole methods.

⁴ The only really regularant work on the problem is part of elaborate studies of recolorium made by Pargers and the Clinicia. These will be discussed later

⁴⁶ M. Heptron, Problems and possil treatment in Bultipasse. J. Crim. Law and Crimmol, 1976, 19, 66-74.

- V. CAR A GROUP OF PARALLES IN INFERENCEACHE HIPS SUB-GROUPS OF SUCCESSFUL AND UNROCOMPUL PARALLES BY EXPERIOR TO A ENT OF PACTORS, OF WHICH SURCE VARIETY OF INFERENMENT IS ONLY DATE?
- (1) B. Pintner and J. C. Remner" combined the ratings of three separate experts for "future parole success" of twenty-six delinquent girls. Using these ratings as a "measure ill encount, they correlated them with intelligence across and obtained a coefficient ill correlation of 4-15.
- (2) W. W. Clark^{an} correlated the intelligence scores of 238 paroled, discharged and ferbesgled Whittier School boys with ratings for success based on records of their conduct after release. Its obtained a resultinate of +-19.
- (8) The first elaborate study of parola success in which a large number of factors were considered, appears to have been that of ℍ H. Warner. He examined the parola records 600 cases taken from the parola records of the Massachusetta Reformatory. Three bundred were encessful and three hundred unsuccessful on parola. Reflecting for analysis ℍ factors, many of them based on the prisoners' own stories and therefore of doubtful accuracy, he divided each factor into a number of numbersastal cases in each sub-class, and the curresponding percentages for the successes. He also included for comparison the mana data for 80 cases which were not paroled. Table No. 1 will illustrate his method:

Whental ability and future success of delongant girls. J. Delling, 1918, 3, 74-79.
"Success record of delongant bays in relation to sticilinguate. J. Delling, 1923, 3, 174-182.

⁴⁶Factors determining purels from the Mannelmetta Relevantory. J Cruz. Litw. and Cruzaral, 1921, 14, 172-284.

DESEARCHES IN TREATMENT

TARGET 1

Work in Referentiary School	S	Pencerous Decrees	Not Paraled
All paroles studied	199	100	100
Good	23	23	3
Fair	17	16	10
Bed	2	8	0
Not answered	58	90	87

In determining whether am offender should be paroled, the parole board had considered only four factors: (1) the nature of his offense (exx effenders and guames were desied parole not primerily because of their incorrigibility but mainly as a determent); (2) his prior criminal record; (3) the number of marks for bad conduct; and (4) the length of time the prisoner had been in the reformancery. Although these four factors were, with the possible exception of prior criminal record, admittedly poor oritoria of success on parole, Warner caccinade, that his complete subsidies of sixty odd factors, with the possible exception in insistad instances of the aliente's report, was of no greater utility for the purposes of prediction.

(4) E. Hart²⁰ analysed Warner's data and concluded that they might be of considerable value in predicting success upon parule. He found, by using the Yule and baveaport formulae for the reliability of differences of percentages, that fifteen of the percentage differences that Warner had dissince as integrificant zero statistically significant, and that tweety additional differences were probably significant, although not an clearly so. These factors included III addition to the nature of the offender's rime, which Warner induced stressed, his home carizoment, his character, physical condition, etc. Hart also recombined Warner's data for thirty of his sub-classes on a color the percentage in total successes in a given sub-class. (See Table No. 2). This arrangement aboved differences which Hart engagested might

WProducting purels sepress. J. Celm. Law and Celminsl., 1921, 34, 405-413.

he significant for predicting purole secress, and which should therefore be combined into proposetic ancess. This suggestion has been carried out with considerable success in the work of Burgess, the Gluecku and Volds which we shall later discuss.¹⁵

Table 2

CLASSIFICATIONS OF PAROUED PRESCRIPS FROM THE MARKA-CHUSETTS REFORMATORY, SHOWING THE PERCENTAGES OF SUCCESSFUL PAROLES AND PAROUE VIOLATIONS VALLING INTO EACH GROUP, AND SHOWING WHAT PERCENTAGES OF THE PRINCIPSE PAROLED IN EACH GROUP SUCCESTED.

Warner's	Characteristics for which observed	Waterm's I	PERCYPTAGE	
icela.	militaly to be due to chance	Perchantel Perchan	Parelg Violations	Per veri rappendo m rub-quan
	All puroles studied		100	49.75
	Men gulity of "other"		2	86
87	Partly support un- numed persons		2	88
28	Men guilty of assembly			77
84	Occupation "none"		1	75

(5) H. L. Witmer³⁰ examined the records of 214 paroless from the Wiscousin State Prison and 239 from the Wiscousin State Prison and 239 from the Wiscousin Schomstory for Ken, all of when had been reported as successful on parole; and of 116 from the Prison and 45 from the Reformatory, who had been returned for violation of parole. Using the Warner method, she compared the percentage distributions for some fiftees factors (including various planess of pre-committeent, prison and parole life), and concluded that there were nignificant differences for the factors of previous record, offense causing committeent (e.g. men committing leaver crimes are more likely if repeat their offenses), grades in reforemency school, place of

⁶⁴Ser ys. 196-256, spice.
¹⁴Some factors ill maccan or federa on purole. J. Colp. Low and Criminal, 1967, 1884-189.

residence before cumulturent and amount of monthly earnings; some of the other differences are attributable to such factors as age and sampling. Her method of combining the data into percentage form and her failure to determine the reliability of the percentages impair the value of her conclusions.

- (6) A somewhat different method of evaluating the influence of various factors upon partile success was employed by H. G. Borden." He examined the records of 263 consecutive male paroless from a reformatory. He missied 27 (tems, including intalligence, pre-institutional and institutional behavior, temperament and occupation, and correlated each occurrately with parole specess. He also obtained multiple correlations between various combinations of factors and parole success. His highest coefficiant was between stendiness of employment while on parols and "success", in which r was .419; the correlation with "fewer cominfiments" was 302. The multiple correlation between "success" and the combined scores for "diagnosis of intelligence" ous commitments (= -.202), was +.4071. He does not describe his statistical method or his data to sufficient detail to permit critical analysis of his results. However, it seems likely that the Pearsonian coefficients which he used were not suitable for the greater part of his data which were incomparable when arranged in step intervals.
- (7) E. W. Burgess³⁰ appears to have been the first Invastigator to carry out Mari's suggestion of farmulating proposatic scores for parols success. He studied the records of 1,000 came from the Illinois State Penitentiary at Joinet, 1,000 from the Southern Illinois State Penitentiary at Meaned and 1,000 from the State Reformatory at Postine. He selected 22 furtows such as nature of the offense, powdense criminal record, purcetal and marital status, neighborhood and community, previous work record, age,

⁻ Magaziore for proficiling paralle success. J. Criss, Law and Crischott, 19th, 19, 539-356.
- Magaziore determining success or fashere on purele, J. Criss, Law and Criscians, 1922, 197, 284, 286.

mentality, personality type and punishment record in the institution. Each of these factors was divided into sub-classes and the necessage of perole failures in each sub-class was determined.

Hurgess then prepared scores for the prediction of parola success in the following manner: Taking the rate of violation of the institution as a home, he credited such surples from that institution with one point for each sub-class in which appeared and In which the violation rate was less than the average for the institution For example, Table No 3 shows that 22.1% of the prisoners peroled from Pantine violated perole, but that only 14.8% of Hurgess' cases from that institution with a psychlatric prognorts of "favoruble nutcome" violated narole. Therefore, Burgoes greated each of these cames with one point. In the same way, he redited such of his cases which had received a prognosis of "doultful outcome" with only one point; while those with a programs of "unfavorable outcome" received no credit. By amber of points obtained by each offender for the addize various actors, Burgers got scores for each effender ranging from

Table 3
PSYCHIATRIC PROGNOSIS OF OUTCOME ON PAROLE

Psychiatric Prognesse Pe	Penthac con volume	Microse Per cont volume	Set out Achter
All persons	22.1	26.5	28.4
Favorable Outcome	14.8	21.4	20.5
Doubtful Outcome	17.0	28.1	51.4
Unfavorable Outcome	20.5	22.6	49.2

0 to 31. He divided these scores into class intervals (Sos Tuble No. 4) and distroyed the percentage of cases in each class interval who were parcle violatars. This table was designed as a device for predicting yarsis amonas. For example, of the 25 Joliet cases with scores from 2 to 4, 76% had visited garole. Thus it can be seen that if the table is accepted at its face value, the chances that a man with a core random from 2 to 4 will violate parole, are

approximately 70 in 100; while the chances that a man with a score ranging from 10 to 21 will do so, are only 1.5 in 100. Burgoes prepared asparate tables for each of the Institutions which he studied.

A SHALL OF PARKE VIOLATION AND HON-VOLATION (SELECT SOR)

pose the execution		Franker in each	Econds of som	Per cent voterors of pervis	Per cent non-violator
16-21	,,,,,,,,,,,	6	Pl Pl	1.5	96.5
14-15		14	0	3.2	97.8
18		9	L	6.5	91.2
19		10	E .	13.1	84.0
11		11	9	22.7	77.8
10		8	8	34.1	68.8
7-9		28	7	45.0	36.1
5-6		8	5.	67.L	32.9
34	*******	2	5	76.0	24.0

This work is to be criticised for its crude approximate statistical technique. For instance, at Postine it was found that in case involving a regular wack record price to commitment, or emotional instability, or very superior intelligence, or scatteness of less than one year, or runal origin, the violation rate was half the institutional violation rate. Inversely, the parole violation rate was double the average in cases where prior to his arrest the criminal had lived in the underwundl or in a rooming house, or where the judge or prosecuting attorney had protested against legisland, or where there was a materiace of five years or over, or where the offender was brought up in an institution, or where he was a protessional criminal. Yet no attempt was made to take account of the extent of the divergencies from the norm which were accountered in such sub-fine. (8) G. Thöbitist has exceeded a study along the lines laid out by Burgess but with a few technical embelliahments. He studied a group of 2,000 cases from the Illimade State Reformatory at Pontice, whereas Burgeow had chosen his group from three different institutions. He almo added four additional factors to Burgeas' achellule: use of alcohol, nature of community the individual was to be paroled into, last work assignment unide the institution and first job on purels. The first of these four, together with mortial status, were subsequently discarded.

The violation rate for the 3,000 offenders was 24.7%. This made it possible for Tibbitts, after he had classified those offenders, to distinguish between the various classes scoording as they were more likely to violate perols (i.e. had a violation rate less than 24.7%). We present in Table No. 5, which we have prepared, some of these classes differentiated on tiest heads.

TAME S

More Labely to Various Phouse	Lone Librity to Vesiate Parele
Hoboss 40	Farm boy 15.1
Ne'endowelle 46.4	Crimical by secident 17.1
Paroled to rooming house	Paroled to ferm 17
commanity 54	First offenders 12.1
Habitual criminals, 58.8	Bitilied inhorers regularly
Never employed 38.5	employed 6.
Bexual psychopathe 40	Emptionally unatable 18.0
Neuropaths and psychotics 38.1	Bex offenders 8
Feeble-minded 27	Eleven months' centence
"Lone wolver" 33.1	or less
Negross	Prior recommendation of
Irish \$1	lexioncy 12.

^{**}Success or feature on parole can be predicted. A study of the records of 3,000 youth paroled than the Illinois State Bellemanney. J. Cross, Law and Criminal, 1831, 22, 11-30.

 $\label{eq:tancy rates of parole wolation and wor-violation} \text{ }$ Expectancy rates of parole wolation and wor-violation}

Groups of Furtors According to Number of Points	Number	Per en	ner Retun vir et of Parale V Major	i. Success de Lefetors Tagel	Parturas Per cont Successful
15-0 18-0	. 37	0.0	0.0	0.0	100.0
19-1 10-0	. 114	3.1	3.5	4.0	85.1
9.9	. 296	4.7	2.5	7.2	92.8
7-2	. 485	5.6	5.3	11.1	88.9
7-8	. 391	6.3	8.4	15.7	84.8
6-8 5-9	. 227	6.2	11 9	18.1	81.D
4.5	. 434	8.3	16.4	24.7	TT 8
48	. 400	11.5	19.1	30 4	09.4
3-4 2-8	. 293	14.5	28.3	42 8	ñ7 2
94 1-4	. 234	13.8	38,\$	49.6	50.4
1-5 0-9	. 172	15.7	38.9	54.6	45.4
0-11	. 0	●.0	100,0	100.0	0.0
Alt Cases	. 3,000	8.8	10.1	24.7	75.8

Tibblits found that the offenders who had served the longer terms or who were of inferior or very inferior intalligence, were more likely to vishate parobe and that the younger offenders and those of superior intelligence were less likely. The tetrachoric coefficient of correlation hetwess Parole Violation, Rabitsal Offenders and First Offenders was + 178, the highest of the savoral tetrachoric rk which Tibblits set.

On the beais of the proportion of violaters and non-violators falling into each of his channes, Thickite discriminated between facture which are favourable and those which are unfavorable to parola success. He then eliminated from these factors all which had a violation sets ranging from 20% to 20%, i.e. a rate 5% above or below the average fee the whole group. This procedure resulted in the elimination of one class of factors, leaving 32 classes. No offender with any autororable factor had more than fitness favorable factors, while no effender with any favorable factor had more than eleven unfavorable factors. The diagnostic value of the results obtained by this process are set forth in Table No. 8.

(0) While the sindy of E Gineck and E. T. Gleeckii is quite similar in general character to that of Burgess, it differs in tochnique in several respects. The Ginecks worked with \$10 men whose parole from the Mannehpaette Reformatory expired during 1921 or 1922. These men were, when judged by such factors as psychiatric diagnosis, age distribution and prior recidivism, typical criminals. In over 86% of the cases, on extremely birt. percentage, the history of each man included practically complete information for the five-year post-purels period (1922-1927). Their post-parole and pre-commitment records were considerably more accurate and more detailed than those employed in prior studies. The preparation of these records was the result III a. Permistent three years' investigation that Included the analysis III all available public records and interviews with ecqualatances and relatives in the paroless, with officials with whom they had come into contact and with the paroless themselves wherever prac-

MSOO craninal current.

ticable. If is therefore interesting to compute Burgess' finding that 28% of the offenders pureled from Juliet violated that parols, with the Ghasche' that 62% of the 425 offenders, whose port-parols criminality they were able to excertain, were total failures during the five-year post-parole period, and that an additional 17% were partial failures.

After exhaustive percentage commensations for some fifty factors, classified according to a temperal scheme as pre-detention, reformatory, parole and post-purels factors, the Gipecks calculated coefficients of contingency with purels success for such of these factors. They then eliminated all those factors whose coefficients were small, and which therefore seemed to have only a nggligible relation to success or failure on parole. Thirtoen factors were left. The coefficients of contingency between each of those factors and success during the five-year post-purule period are set forth in Table No. 7 on the next men.

The Gluecks also constructed a prognostic table similar to that \$\text{III}\$ Burgess. Each factor was divided into various sub-classes similar to Burgess. Bath factor was divided into various sub-classes similar to Burgess. Individual scores were then constructed by a new method, that of adding the percentage of failures in the respective sub-classes in which each offender \$\text{cell}\$. Table No. (page 206) shows the percentages of total failures for one factor "industrial bulits". From this table it may be seen that for this factor an offender who was classified as a "fair worker" as core of \$9\tilde{\text{s}}\$ and as offender who was classified as a "poor worker", a store of \$9\tilde{\text{s}}\$ and an offender who was classified as a "poor worker", a store of \$8\tilde{\text{s}}\$ and an offender who was classified as a "poor worker", a store of \$8\tilde{\text{s}}\$ and an offender who was classified as a "poor worker" as the factors constituted his total prognoutic store.

By arranging the individual account in close laterwais and calculating the percentage of offenders in each class interval who had been successes on purole and the percentage who had been failures, the Gluecha elifatined four prognostic tables, similar to those of Burgers. One, with scores ranging from 344 to "316

¹³The Gheeks regarded coefficients below 2 as displaying a negligible correlation, from 2 to 4 as showing experientile ammonsan, and from A to A as showing considerable relation in trace of the sways light coefficients plantant for post-pardefactors, the spens observed approaching association were eliminated and also one or two of those aborting annihilations institutions.

RESEARCHES IN TREATMENT

=)	Pre-reformatory factors: (cs in prognostic table)	
	(1) Beriousness and frequency of previous crime record	.36
	(2) Arrest for crimes	.40
	(3) Penal experience proceding re- formatory	119
	(4) Industrial babits	.42
	(b) Economic responsibility	.07
	(8) Mental abnormality	.20
(b)	Reformatory record: (combined with above factors in prognostic table)	
	(?) Prequency of offences in re- formatory	. 260
(c)	Purole factors. (combined with above factors in prognostic table)	
	(8) Criminal conduct during parole	. 17
(d)	Post-parole inctors: (combined with above factors in prognostic table)	
	(9) Industrial habits	. 59
	(10) Become responsibility	
	(I1) Attitude toward family	.58
	(12) Type of home	.48
	(13) The of leigner	18

and over", was based on the six proveformatory factors, and can be used in sentencing offenders. A necond table, ranging from 274 to "476 and over", was based on the six pre-reformatory factors and one reformatory factor, and can be used in deciding on the purols of first offenders. A third table, cauging from 304 to "651 and over", was based on the preceding factors and the purols factor, and can be used in deciding discharge from payole. And

TABLE 8
INDUSTRIAL HABITS PRECEDING SERVENCE TO THE REFORMATURY
(Computer, Si)

Ches	Percentage of Total Failures
Good weeker	43%
Pair worker	
Poor warker	68%

a fourth complete table, based on all previous factors and, in addition, five post-perols factors, ranging from 385 to "976 and over", can be used in determining the seatences of recidivists. This last analysis is given in Table No. 9 on the next page.

Since, as appears from Table No. 2, the coefficient of coningency of the prognonic senses with success was only .68, it is clear that their predictive value in not great, and that while they are suggestive, they sum hardly be considered as definitive. However, as the Gluecks point out, the two major determinants of a judge's sentence are assually the type of ofference committed and the scriousness of the offence, and these two factors show very low correlations with purole success, the coefficient of contingent between the type of offence committed and parels success being .12, and that of the seriousness of the offence and parole success being .05. The superiority of the Gluecher criteria to the judicial criteria therefore seems indiagnatable.

TABLE S

PROBABLE POST-PAROLE CRIMINALITY EATES BASED ON TOTAL-FAILURE SCORES ON SIX HIGHEST PRE-REFORMATORY FAC-TORS, HIGHEST REFORMATORY FACTOR, HIGHEST PAROLE FACTOR, AND FIVE HIGHEST POST-PAROLE FACTORS

Total-Padere	Sta	that are to Post-	Parelo Crus (N cittago)	dey
\$core	Success	Parted Failure	Tatal Fadure	Total
963-6T0	95.2	4.5		100
078-676	60.6	28.6	10.8	1.00
6T6-775	10.5	47.4	42.1	100
778-875		23.T	77.8	100
S76 and over		5.1	94.9	100
Total	29.4	29.4	\$1.9	100

The most interesting departures in technique by the Gluschs from that of Bargess are: (1) The Gluschs in forming their tribles weighted the secore of each factor according to its importance in relation to success on parole, while Burgess accred all factors aithe; and (2) the Glucchs ignored all the factors which seemed to hear only a night relation to parole violations, whereas Burgess included in his scores all the factors which he studied. For both studies the problem remains, first, whether their classifications were statistically reliable, and, second, whether the estimates haved on the prognoutic tables would be found accurate for say other sampling of criminals. The study of Void shelp considerable light on these questions.

(10) ■. B. Vold²⁶ examined the records of 1,102 men placed ■ parole in 1933-1927, of whom 643 were from the Minnesota State Prison at Stillwater and 650 were from the Minnesota State Reformatory at St. Cloud. He obtained data regarding

¹⁴Protestur melicily and partin Minnepole, Man.: The Socialogical Press, 1931.

soms 44 factors, of which 34 www pre-parole. He formed subclasses under each of these factors and then determined the percentage of purele violators in each sub-class in a manner similar to that employed by Warner, Burgess and Hart. He next found the coefficient of contingency between each of his 44 factors and "outcome on persie" in a measure similar to that employed by the Glucciu. The highest 30 of these coefficients appear in Tuble No. 10 on the next page. These coefficients are supposed to indicate approximately the relative influence upon success on parols of the factors which are tabulated.

Vold constructed 27 prediction tables based upon the 34 preparola factors. In each table he divided 55 crissingle into two comparable groups of squad size, one of which he called the operative group, and the other, the control group. He then ascartained for each group the percentage of parele violators in each class interval of prognostic scores. His tables therefore contain pradictive values obtained from both groups. This method provides an index of the effect of errors of sampling both upon the predictive values and upon the returbility of these values (Sua Table No. 11, page 200).

Vold included in his pre-diritive rables figures based upon his reformatory cases, upon his prises cases and upon a combination of the two groups, in order to discover whether the results obtained from a study of cases from one iestitution were of any value in predicting the behavior on percle of cases from another institution. He concluded that the predictive value of his prognostic scores was greatest when applied to cases from the same institution, but that prognostic scores based upon the study of cases from two institutions had some predictive value when applied to cases from two institutions had some predictive value when applied to cases from two institutions had some predictive value when applied to cases from two institutions.

The tables which Vold constructed for the IV pre-purole fuctors showing the highest confidents of contingency, were oustructed according in the methods of both Surgess and the Glucks, while these for the IV showing the lowest coefficients

OVoid also obtained data whether to four additional factors which were not particularly related to the problem of particularly related to the problem of particularly.

RESEARCHES IN TREATMENT

Number		
el Cates	C°	Carryony compared with "outcome on parvic"
1199	, 262	Previous criminal record
1186	.258	Work record while on parole
1192	.341	Murital status at time 🗐 offense
1192	.237	County from which received
1187	.227	Prison pusishment record
1186	,214	Social type of inmate (dx-place classifica- tion)
1185	. 206	Work babits prior to conviction
1191	. 208	Occupation at or before conviction (six-place scale)
1189	. 294	Nature of crime of which convicted
1192	.200	Bise and type of community in which offense was committed
1180	. 188	Size and type of community in which in- mate was brought up
1175	.170	Habite and cheracter; whether ambitious or lasy
1180	.177	Site and type of community into which in- mate was paroled
1175	,173	Habite and character; whether honest or dishonest
1192	.184	Number of times parole agent visited in- mate on perole
1175	. 149	Habits and character: use of drugs
1179	.145	Institute of Child Welfure classification of occupation
1176	. 145	Habita and character: we of Equor
1189	.143	Mobility of inmate before conviction
917	.139	Estimate of inmate's mentality (by prison officials)

[&]quot;The Majorat values have possible for "C" rouge lectures AS and St.

and for a combination of 25 factors misched from the two groups of 17, were constructed according to the simpler method of Burgers. Vold's purpose here was to test the Gluecks' assumption that factors showing negligible coefficients are II no predictive value. Vold discovered that the promostic scores based apon the 17 fectors with the lowest coefficients had a predictive value almost as great so those based agon the 17 factors with the highest coefficients, and that the acores based upon the 26 combined factors were definitely superior ill value to those bused solely upon the 17 fectors with the highest coefficients " When Vold correlated the arors obtained by the Glueck's weighted method with those obtained by the unweighted method of Burgam. be obtained a coefficient of +.50-1.00

A major problem la studies la perole prediction is the reliability of the classifications upon which the promocatic acords probased and which are gotten from prison records. Yold tested their reliability. He reclassified a randomly selected group of 188 of his cases, and had 65 of the 198 cases independently classic fied by another investigator, with respect to some III factors. He then compared life original classification of the 108 cases with his reclassification, his original classification of the 63 cases with his subsequent classification of those cases and with that of the other investigator, and his second elessification of the 63 cases with the independent classification. The statistics for the prison, reformatory and combined prices and reformatory groups were saperately presented.

Void discovered that his data were not in such form as to parmit the accurate are of conventional methods of determining

Win comparison of the predictive value of these varience tables two excludes are researed for (a) imagestors of the differences between the operative and control groups, of the countrol groups delivers at another processing of restates as a spread approach, and the countrol group delivers at another processing of the processing of the

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EXPERIENCE AND EXPECTANCY MATE OF PARICE MODIFICE INDICESORS STATE PRISON, 18040; THE ROLL RATE BASED ON THE AVERAGE WOLATFON RATE NO CLASSICAL The state WHICH GROUP OF 542 CASES 1

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reliability. He therefore employed three methods, wone of which could be relied upon for accurate indices of reliability but which would at least reveal any trend that might exist. Without describing these methods or summarising his results, it will suffice to say that in general they show a considerable degree of consistency. The percentages of full appreneural tend to full between 50% and 70%. The correlation conflicients send to fail between 5 and 2, and the coefficients of contingency at about 7 or 8 with however, a good deals of variability.

One of his general analyses in presented in Table No. 11. It shows the degree of sifteendistice obtained for the entire group which he studied. Comparises of the operating and control groups shows the rainbility of the table. As Vots states, a finel test of the value of the prediction tables will be a comparison of their prophectes with the actual behavior of another calcular group during a sufficient parole pariod.

Section 5. Critical Summery.

We have now completed our survey of constantion in treatment. We shall have present a comprehensive oreleastion of them. That these investigations give as no knowledge of either the daterent of the reformative effects of any mode or variety of treatment must be perfectly clear from an inspection of the researchs them themselves. We shall, therefore, confine ourselves to a criticism of the validity of the data and of the shillty of the fleetings to answer the specific outsitions directions the research.

The validity of the data employed in the first four groups of researches depends upon the accuracy and reliability of crims rates and rates of recidivism. Orine rates are notoriously innocurate and unreliable as an index either of all crims or of specific crimes. The procedure by which the number of crimes is associated varies from community to community and from time to time. A crime index may be based either upon the number of crimes how to the police, or the number of arrests made, or the

^{**}But crims rates and not be unrelable. See the analysis by T. Selve, The bash of a crime bales. J. Crus. Law and Cruminal, 1929, 22, 225-226.

number of convictions. In middison to the unreliability of the crime rates because of the lack of uniformity in the procedures by which they are compiled, cosum data of this cost are inaccurate to me extent which has mover been precisely determined; that is, we do not know what is the probable error of any index of the volume of crime. Variations in the personnel entrusted with the duty of recording crimes and in their policies and practices in keeping criminal records have resident indeterminable the accuracy of trime rates as not not as a rule distinguish between first and subsequent offenses so that even if they were accurate and ruliable they could not be used to measure the deterrent effects of methods of treatment.

We must, therefore, courlede that the data which are amplayed in the first four groups of researches, being entirely canana data based upon records of the amount of crime, are of low reliability and of indeterminate occuracy. Even were the data rignificant, it would be improper to use such materials as a baris for inferences and conclusions. One further criticism can be made of all the recorders in the first four groups. In each caps the process of treatment # involved. The percent of treatment has many modes and each of these modes has subordinate vorletter which may be more or less complex. Even if the data used in these researches were valid, it would be difficult to say pracisely what had been studied because of the lack of definition of the trantment factor is each case. Mone of these restarches attempts to applyse the significant features of the particular mode or variety of the mode of treatment which was studied. Such terms as imprisonment, probation, purele, etc., are ambiguous. Their meaning differs from time to time and from place to place. It is indispensable, therefore, that investigations which employ such terms restrict their messing to the nature of the treatment factor being studied. This can only be done by a careful analysis of the treatment factor in such ture.

NWe shall potentiately discuss the register of come records out statistics and current efforts to accuracy their reliability and accuracy. See Chapter IX, were.

The third and fourth groups of researches attempt in compare the rates of residivium for either different modes of treatment or different varieties of the same mode. The significance of the data employed is making such a comparison depends upon the comparability of the groups are not comparable in the same finit they are not homogeneous with respect to all other relevant inclose, differences in the rates of recidivium for the groups being compared cannot be interpreted as differentiating the modes or varieties of treatment being compared. None of the researches we have surroyed satisfies this indispensable condition. In addition to employing invalid cannot data, they have falled to determine the comparability of the groups of individuals which they studied in relation to different modes or varieties of treatment.

In view of the invaligity of the data employed in the first four groups of steples, it is not necessary to discuss their statistical uniquificance. Invalid data canees, or at least should not, if it is not not the findings of these invastigations must, therefore, be considered as nothing more than statistical descriptions. Their invalidity is not a statistical but an observational invalidity.

Finally we turn to the fifth group of investigations, those concarned with the differentiation of successful from unsuccessful purpless in terms of a set of however and environmental factors. These studies in parole prediction are the only investigations which mark detailed criskelms. Although their technique ill more alaborate, involving more complicated observational and statistical processes, and although their findings can at loss to examined for their relevance to the predicts of group differentiation, those buddes have been increasedmer in the same that they have not solved their specific problem. The same methodological defects which we discovered in the host work in causation, can be detected here.

In the first place, the heterogradity of the factors upon which the prognostic scores are based makes any additive combination of them, weighted or unweighted, incomparable with any other. This undoubtedly explains in part why Wold could get a coefficient of +-822 between Burgonf unweighted and the Gluecht'
weighted score for the same group. It also explains why
Burgons was unable to get significantly different results when
he tried various systems of weighting. This heterogeneity of the
variables also makes itself felt when they are used in correlations.
It is doubtful whether the techniques of multiple and partial
correlation which would have to be used in order to determine
the intercolation of the various factors could be applied to these
materials.

Closely related to this criticism is that to which the classifications employed are subject, from the point of view of reliability and axclusiveness. Thus, it seems possible to classify the same individual under more than eight of Burgess' social types; and the Gluecks counted the factor of previous criatinal record four times, although under different sames, with the result that there was to that extent as a priori weighting ill that factor.

We have pointed out that while Burgess obtained his data from prison and parole records, the Gleecks went into the preimprisonment and post-parole careers of their cases and studied a number of pre-imprisonment and post-parole factors. This procodure yielded results dissimilar to Burgans'. The Gluncks found. that 60% of their pareices returned to criminal cureurs after being discharged from parels, while Burgess discovered a parels violation rate of only 28%. Hat when, after obtaining coefficiants of association "with success", the Gluecks eliminated as insignificant those factors with low coefficients, they did not take into account the indefinite and ambiguous character of these factors and the influence that the heterogeneity of the variables of which these factors were composed and their interrelationships may have exerted on the law coefficients. As we have seen, Vold discovered that prognentic scores bound upon factors with the lowest coefficients of contingency "with outcome" had predictive value almost as great as those hand on the factors with the highest coefficients, and that severe burst upon a combination of factors of both kinds were superfor in value to those based solely upon the factors with the highest coefficients.

In the second place, the reliability of the classifications emplayed in these studies is underscably affected by the fact that at the present time the records upon which they are based are kept for some other purpose or for no particular purpose and seldom contain the data needed for the significant classification of paroless. The data which has been employed do not permit the investigators to compute the probable error of the percontages which they employ or to determine the character of the sampling of the tadividuals being studied. The significance of these studies, furthermore, is seviously impaired by the failure to give precise accounts of the modes and varieties of imprisonment and perole. Thus, it is likely that any eignificant variation in the method of treating peroless, such as a change in the degree of the refinement of unpervision, might have a considerable affect upon the instances of perole violation. | such a case, it is doubtful whether a predictive table based on data secured with respect to individuals treated by one variety of parole would be significant for individuals differently treated.

Finally, the term parole violation is not precisely amough defined. It is used to refer is the failure to report to purole officers and to other violations of purole regulations as well as to criminal behavior of all kinds, mindemeanors and falonies. Totally different findings might result from the study of success and failure on purole if failure wors defined in terms of different types of purole visiation.

In order to conclude the summary and criticism of reasarches in treatment we need only relitarate the conclusions of the previous chapters. Not only in the research in treatment not scientific but, with the exception of a few investigations. If it clearly invalid and utterly insignificant. The exceptional investigations are not conclusive but at least they show some appreciation of the methodological requirements imposed upon investigators seeking to solve certain problems.

We have some that the literature on cuncation is filled with opinions about the causes of crime which can have no foundation whatenever in the findings or conclusions of research. The literature of criminology bearing on treatment is similarly filled with proposals for alterations in the treatment process or for the institution of new kinds of treatment. Some of these are not made with a view to increasing either the deterrent or the reformative effects of treatment; excluding these, the rost are based upon opinions which are not founded on the findings and conclusions of research. We know nothing about the deterrent or reformative effects of any mode or variety of treatment. It is, therefore, impossible for a proposal of alterations in the modes of treatment to be defended on the ground that the proposed mode of treatment will have greater deterrout or reformative effects. All changes in the treatment process offer opportunities for the atudy of their differential effects soon human behavior. Any proposal for a change in the treatment process can be justified only ES AN experiment. 84

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Chapter VII

PERFARCHES IN PREVENTION

Section 1, Problems of Discussion; Problems and Mathods.

The term prevention has both a loose and a restricted meaning. In its loose sense, it envers all devices employed by acciety to reduce the amount of crims. In this first scree, the modes and varieties of treatment, whether viewed in relation to potential or to actual offenders, can be considered as efforts III prevention. In its narrow sense, prevention covers all the official and non-conficial attempts to reduce the amount of rime, except the treatment of suspected and coarieted offenders. We shall classify under the head of prevention all investigations of the effects of official and non-official preventive measures other than the treatment of offenders.

It is necessary to distinguish between empirical studies of prevention and proposals of plans and programs for prevention. In the previous chapter we surveyed and criticised researchas III treatment. We did not discuss the many proposals for the modification of one or another aspect of the treatment process beyond pointing out that is the present state of our knowledge all such proposals can be supported only by equision. So here we shall survey and criticise investigations of preventive measures which have been put into practice. We shall ignove the host of panacies and programs which, like proposals for the modification of the treatment process, are founded upon optains about the causes of crime which, in turn, have no foundation in knowledge of the causes of crime.

Very few studies have been made in this field. With the exception of one, they are all directed by a single problem. This

We shall elsewhere (Chapter Will) discuss programs for the modification of trustment and programs of procession, with a view to analysing from and explaining the very in which they could be set up experimentally.

problem is analogous to the problem of the deterrent effects of the treatment process. The problem of deterrence cannot be formulated at present in such a way that it can be employed either & direct or to interpret investigations. As in the case of studies supposed to be concerned with the deterrent effects of treatment, the studies which are supposed to deal with the deterrent effects of preventive agencies, answer a much more limited question. That question can be formulated as follows: What is the crims rate in a given community, contemporangous with or subsequent to the execution of a particular preventive program in that community? It is obvious that even if the data III research answered this question, the snewer would have no further dunificance. It certainly could not be interpreted as solving the problem of deterrence, since to interpret fluctuations in orime rutes as measures of deterrence is to commit the fallacy of post had ergo propter had.

The few studies which we shall report are all concerned with the problem of delinquency. This fact, however, does not alter the analysis of the nature of the researches. It would make no difference if the foregoing question were formulated so as to substitute delinquency rates for crime rates.

The one exceptional study is analogous to investigations of the reformative effects of the treatment process. It is an investigation of the effectiveness of a child guidance claim in correcting the maladjustments of problem children. On the supposition that turnsformed problem children become delinquents, this investigation of the reformative effects of a child guidance clinic is a study of the prevention of delinquency. Precisely formulated, the investigation is un attempt to differentiate adjustable from madjustable problems children in terms of a number of factors which a child guidance clinic is only one. Thus viewed, it is like the attempts to predict sectoms or failure on parola and to select the factors in terms of which a valid prognosis can be made.

With the exception of this study, all of the investigations in this field use only the common method and do not differ methodologically in any way from similar studies in the field of treatment. The investigation of the reformative effects of the child guidance clinic ment the cuse history method in addition to the casess method, and is thus similar methodologically is studies of purels prediction.

In the subsequent section we shall report and criticise the few researches which have been completed in this field. The criteria upon which we shall criticise the validity and significance of the data of research have been fully discussed in previous chapters and require so reposition here.

There are only three groups of researches. The first and second deal with playgrounds and beye' clube as preventive agandas. The third group contains a single investigation of child guidance clinics. We shall group these researches under the specific questions which their data are capable of manwaring.

Section 2. A Survey of Empirical Studies of the Prevention of Crime.

- What 11 the relinguished rate in a given community, contemporarisors when or suppopulate to the execution of a parencular preventive program in that community?
- (1) Playgrounds. Some cridence has been reported as to the effect ill playgrounds on the raduction of delinquency in regions where they are satablished. The City himages of Encaville, Terminass, claims that juvenile delinquency has decreased 50% since playgrounds were started; in Terosto, in a district of 50,000 people which sext 50% of the total of child delinquencies to the juvenile courts, delinquency was reduced to practically all within one year of the organization of beys; groups by the Teronto Botary Club. The production officer in Vissila, California, claims a reduction of 80% in jevenile delinquency since the organization of the community recreation system. St. Louis reports that a comparison of the number of jevenile delinquents in the effective area of every playground in St. Louis in 1917 with the number of delinquents in 1825 in the nume areas, aboved a decrease of

San Section 1, Chapter VI.

50%. New Orients reports a decrease in juventle delinquency since 1908 as a result of the introduction of playgrounds, although the city has increased in population over 66,000 in that period.

Passing over more map studies, we come to Trutal' who has made an extensive study of the relation between inventle delinopency and playerounds in Manhettra. He divided Manhettan into 28 play dustricts, embracing the area of effectiveness of a playground (which evidence aremed to automatiate as a circle of a quarter-mile regime), bounded, wherever possible, by thoroughfares (which children generally would not cross III reach a play area), reasonably uniform for racial composition and including integral sanitary districts. For each district he computed a delinguency index which was the number of arrests divided by the total number of children, multiplied by 1,000. He then appeartained for such district the adequacy of play-space index by dividing the actual play-space by the needed play-space. He obtained a rank order correlation of + \$4, which is subject to a high probable error because of the small number of cases. However, Truxal points out that this commutation does not take into account districts which have parks, but no supervised play areas. He also tested this correlation by holding rectal composition, child density and police regulation (represented by the tendency not to arrest for lesser effences in certain districts) constant. He noncludes, from the evidence gathered, "that a certain amount of amoriation between recreation areas and juvenile delinquency appears to exist. This is quite a different statement, however, from one which would assign to the presence of recreation spaces the controlling factor in the prevention of delinquency". His further remarks are of interest because of their critical bearing on the study of prevention. "We should look with considerable skepticism." he writen "on may cany reneralization which would

T., F. Hammer, Relations of public recommism to deliminatory. Proceedings 30th Annual Congress, American Pentes Assumations, 1928, pp. 313-312.

**Outdoor recommon Jepolestrus and the affinitionators. New York. Ph.D. Thesia, Columbia Universitys, 1938.

^{*}Comparied (n a norm of 200 square fast per child and up the hartengates that to more than 12% of the children qualit what to the physposoni at the same time

¹⁰s. cit., p. 165

autign to this one environmental factor, via, recreation spaces, the predominating influence on the control of delinqueury. the second place we should be able to say that there appears III be a moderate association between the presence of recreation areas and the absence of juvenile delinquency, provided we have taken into account a sufficient number of environmental info-ATICOM 717

(2) Boys' Chobs. We have a few items of information about the preventive effects of boys' clubs. The Union League Club of Chicago organised a boye' club in a district distinguished by its high rate of delinquency." Within a short period of time juvenile delinquency in this police pressuct actually decreased 61% while the decrease for the city as a whole during the same period was relatively small. The same criticism can be made of this study as was made of avidence of the success or failure of the juventle court. It is not fair to conclude from these flavores, as did the chief of police in Chicago, that "if there was a boys' club in every precinct, juvanile delinquency would be reduced to a minimum". As Dr. Thomas points out, a closer examination of what actually happened shows not so much a reduction of delinquancy as a change in policy on the part of the police. Of approximately 15,000 boys whose delinoscacies came to the attention of the police in 1926, only 1,439 were taken before a juvenile court; that is, the police may use discretion and release delicquents on parole to their families in a large proportion of the cases. It would, therefore, be very natural that the police of this precinct should use their discretion at this point and parele a large number of the boys to the Club. Thus the solice of the solice can make the crime rate appear to be almost anything. If in 1825 the police of Chicago had adopted the Boston plan of taking practically every case to court, I might have appeared that boy dellaquency had increased more than 1800%.

^{*}Op. and., pp. 165-206.

F M. Thrusbur, The gauge Change: Unformity of Chings Press, 1927, pp. 520-524.

^{*}Report to Columbia, Criminalaycal Survey, Part 2, Section 18, pp. 17-18

The Norwich (Engined) Lade' Club III a hoye' club organized and run by the Korwich Police Department, As eridence III its value, the following figures are cited: III Korember, 1917, a year before the organization of the Club, 55 beys from Norwich appeared before the Javendle Court, and 55 beys from Norwich were in correctional institutions. In the year 1925, after the Club had been in operation for some time, only 18 boys appeared in the Juvenile Court and only 30 were in correctional institutions.

The Boys' Club of Worcester, Mass., makes a similar claim for its preventive efficacy with respect to delineaemey. 18 It is year between June 1, 1985, and June 1, 1926, of 990 boys apprehended by the police for delinquency or crime, only \$4 were members of the Boys' Club. If we take boys of fourteen years of age, 50% III which age group were members of the Club, we find that only III of \$8 cases of delinquency were members of the Club. The alguifance of this report cases to estimated in the absence III much more data, particularly as to the comparability of the groups compared III all respects other than membership in the Boys' Club.

An organised and controlled study for the purpose of measuring the indicence of a boys' citch in a given region on its members and on the neighborhood, is now being carried on at New York University under the direction of Frederick M. Thrusher. No results have yet been published. This project III much more elaborate than anything yet nitempted in the way of measuring the preventive efficacy of some social agency or institution. Whether or not it will yield significant and caliable results will depend upon the same methodological considerations which we have already examined in defaul III our discussion of research in the fields of examittion and treatment.

¹⁰The Chief Constable's Annual Report to the Watch Committee of the City and Compt Revenue of Neurosci, 1935, and in Harrison, Understown crasts, Colleger 5, p. 11

¹¹Peophict (annual by Westerier Buye' Clair

II. Can ten occurs or particula in tent and undersome of trouters critation on publicated in terms of al multiple of particula, of which percentage separations in order code?

Child Guidance Clinics. A five-year experiment was undertaken by the Bureau of Child Guidunce, and the preventive value of their work has been estimated by Porter Lee, the director of the New York School of Social Work." The experiment was designed to test the effects of submitting a group of selected. children to treatment by a stell of psychiatric social workers. 322 children were accepted at the Bureau for study; of these, for one reason or another, only 591 were carried through for a period long enough to permit remonably adequate treatment. The cases upon which the evaluation | hered are therefore those in which the treatment was given the follow opportunity for affective results. The phiettive of the Bureau is each of the 581 cases could III stated as the emotional adjustment of the child through better understanding of his problems. The evaluation of this treatment required a classification of cases according as they resulted in successful adjustment, partially successful adjustment or complete failure. The difficulties in making a uniformly reliable diagnosis of success and failure most be considered as one of the chief sources of error in the statistical handling III the data. The data consisted of three separate records: (1) the case records themselves which were numerally complete; (2) curtain diagnostic and progress records which were kept currently in the treatment of the cases, and retorded briefly the problems defined by the staff, the treatment undertaken and the progress or lack of progress noted; (3) a special analysis in which all of the data regarding the putient and his cavironment were classified as as to indicate whether each item in his history seemed to have either a favorable or an unfavorable significance in the problem of his adjustment. This extremely detailed study was made of only 198 cases, and in the light of these data the cases were classified by the entire staff as somes, partial somes, or failure. Vari-

WAS experiment in the resiliation of month case work. Proc. Am. Stat. Area,

ous efforts were also made to check the relighbility and the accuracy of the diagnosis by Judgment obtained from parents. The family appraisal was then compared with the staff appraisal.

The result of the staff appraisal in 195 cases carried through the treatment period was as follows:

forcess Partial success Failure	93 61 	40% 31% 31%
	196	1894

In 61 cases the staff and family appraisals were compared in order to closelfy the individuals. The vessiles of this study were:

		PARENT'S BATING Partiel			
		Success	Secons	Fallere	Total
FRATING	Special	. 23	7	а	23
	Partial success	. 11		4.	90
	Failure		s	3	8
3		_	_	_	_
G	Total	. 34	21	4	61

This study can be criticized in the following terms: First, the process whereby the cases which were evaluated were selected, was such that a greater prospection of success would be expected than in the general run of smess counting into a chinic. Booond, as Lee himself points out, the evaluation was made "by a group which did the work, and the group which had the greatest stake lift the results of the whole experiment. The parent's judgment of the children's progress was made by the group having the greatests take in the child himself . . . (and) can interpreted by suchles person." The figuress are therefore monewhat invalidated

by the inevitable partiality of the parties melting the judgments. Under such circumstances, the degree of success obtained must be considered surprisingly small. In the third place, the proportion of success shows in a study of this kind is not necessarily attributable to the agency moder consideration. "No tontrol group' was studied, i.e., we attempt was made to discover how great a proportion of children having the same difficulties as the children in this group and subject to approximately the sums influences with the sole exception of specificative case treatment, would make 'accessful' adjustments. Until such a study with a control group is made, the most that cas be said for such as evaluation as this ill that it shows the proportion of successes occurring coincidentally with, but not necessarily attributable to, certain mostific sorts of treatment.

"This experiment is further evidence of the complexity of the 'adjustment' process, and of the difficulty of interpreting the value of any particular approach. Certainly the psychiatric approach is far from being the peanese that its more ardest and lass objective advocates here claimed."

This study is an illustration of a program to prevent crime by prevanting the problem child from becoming a juvanile delinquent, just as the work of the juvenile court in program for prevanting the juvanile delinquent from becoming an adult affender.

Section J. Critical Sustancey.

The foregoing researches yield data which are neither valid how significant. We have already exidenced the inaccuracy and intradiability of the orison or delinquency rates which all but one of these investigations sampley. The data achieved by the case history method in that one came are clearly unreliable and have no determinate validity.

But even if the data collected by these remurches were valid, they would be insignificant. Although the first two groups of researches do answer a specific question, this arewest affords no

¹⁴Thomas, Regart to Calmillo Crimbological Survey, Fact 2, Section 12, p. 7.

basis for any conclusion, whatmouver about the effects of the prevantive measures studied. Their lack of clickopical significance is to be explained as in the cause of that of the studies supposed to be about the determent effects of the treatment process. It is numeroscentry to researt the analysis.

The data of the third study are both incomclusive and ineignizant. The data not only are incomclusive, but full to give a definite answer to the question directing the research. Even if the answer were given it would have little etislogical significance because of the inadequate analysis of the set of variables and the utterly incommetent statistical treatment of the data.

We must therefore conclude that we have no knowledge about the effects of any preventive program or measure. In striking contrast to this total lack of knowledge is the vast number of proposals and panesees for prevention which have been advanced. In the next chapter we shall analyze these proposals, along with recommendations for medifications of the treatment of oftenders, and consider how the next test man should remove them.

Chapter VIII

THE CONTROL OF CRIME BY TRIAL AND ERROR

Section 1. The Problem of the Control of Crime.

By the prevention or coultred of crime can be meant either the reduction of the amount of crime is, or the elimination W all orime from, a given community. Whether or not the second goal W attainable is a question we shall reserve for later discussion; must programs of crime prevention can be considered in relation to the first objective, namely, the dumination of the volume of crime. By the dimination of crime is meant the reduction either of the volume of all vrime or of apecide kinds of criminal behavior. The limits of reduction is, of course, elimination. The attaination of a specific kind of crime is not necessarily areas if the climination of all crime may not be. It is important to note, however, that the reduction is the amount of, or the alimination of, a specific hied of crime is not necessarily accommunited by a diministriem in the volume of all crime.

Society can proceed in its effect to control crime in three ways. In the first place, since the criminal law in the formal cause of crime, alterations in the sharvior content of the criminal law may result in a reduction of crime. We the second place, in so far as the treatment process has any detocerat or reformative effect upon the behavior of potential and actual offenders, the treatment of offenders will result in the reduction of crime. And in the third place, there are all the official and anofficial devices, other than the treatment of offenders, which are contrived and upplied as proventive measures. We shall subsequently discuss the criminal law and criminal legislation in relation to the problem of controlling crime.

See p S, copie See Chapter XI.

Ill this chapter we shall condine ourselves to an analysis of practical programs in the fields which have already been arbitrarily designated as those of treatment and prevention.

We have previously defined the enture of a practical problem." III always involves a choice between alternative courses of action. and requires a decision to be made. Thus, the control of crime presents itself to 5 practical problem in the form of a question which saks whether we shall undertake this or that course of action in an effort to prevent crime. There have been many propossile for the modification of the treatment process, proposals to eliminate or modify existing section of treatment or to institute new modes of treatment. Each of these proposals appropriate a practical problem, to which the continuance of azisting modes of tractment unmodified must be viewed as an enswer. Their continuance without alteration constitutes a choice between the alternatives of continuing to treat suspected or convicted criminals in certain wave and of somehow modifying that procedure. Himilarly, there have been many proposals that this or that program be undertaken as a preventive measure. Each of these proposals raises a practical problem by requiring a decision as to the relative advantages of engaging or not engaging in the suggested progress.

Every practical problem of this sort involves the question of the adaptation of means to end. Unless purposeless, a given made of treatment is employed as a masse to the end of nunithment or incupacitation or reformation or deterrance or some other. * Rimilarly, every proposed medification of the treatment process is offered as a means to one or another of these sums ends. The problem is usually, if not always, regarded as involving a choice among alterestive means for accomplishing the same end. But with respect to preventive measures, proposed as means for controlling criminal behavior, the question II whether or not a specific measure which has been proposed as a device to prevent crime is in fact a means to that end and, if so, what is the degree

⁶See Chapter III. See Chapter III, Seelin 3.

of its efficiency. A shallor quantities can be saked with respect to every mode of treatment, existing or proposed. That it is usually not saked indicates that it is assessed that modes of treatment are adepted to their ends, and that proposals for the alteration of the treatment process raise only questions of their relative efficiency. This is particularly true with respect to modes of treatment which are arged so means for reforming actual and deterring potential offenders. It is almost always assumed by those who put them forward that they are adapted to the eads of reformation and deterronce; but, as we have some, this assumption is an estated which has no basis in knowledge of the reformative and deterrent effects of modes of treating offenders.

The question whether any mode of trestment or any preventtre measure, existing or proposed, is a measur to a given and, cannot be answered without knowledge which is sticlorical in form." The question as to the relative efficiency of two or more means can likewise be answered only he research. In the three preceding chapters we have crambed the empirical studies in causation, treatment and prevention, and we have found that they have visided no knowledge of the causes of criminal behavior. This means that we have no knowledge of the influence of any mode of treatment, existing or proposed, upon the bahavior of notical and potential effenders. We do not know whether or to what degree any mode of treatment possesses reformative or deterrent efficacy. If also messes that we do not know whether or to what degree any proventive program, existing or proposed, la afficient as a univentive device.

In brief, we lack the knowledge which is countial to the solution of the most important of all the practical problems of crime, the problem of controlling criminal behavior, and we shall

Fif the east of a given mode of freedoment is got reformation or deterrance, but possistence or forespeciations or may office, the quanties of difference rifter is man-merable, at the present there at flowe, ay in the course of plansiment, or can be absorpted in terms of descriptive incredeling where one the character with greater or less difficulty, as in the case of such acute as a forecast aromany that the activations of popular attitudes toward the treatment and difficulture. In this chargest we shall be concerned with modes of treatment and up in calculate to the ones of a difficulture.

continue impotent to control erims until a acteurs of criminology is developed. Of the ungesty and critical character of this problem there can be no doubt. Its urnamey and critical character is, in the absence of knowledge, the only justification for the many current proposals for alteration of the treatment process and the somewhat less numerous artmands of preventive programs, which are put forward with such agree fuith by their monages. One need only read the bewildering array of current proposals for the modification of the treatment process in the light of our discussion of criminological research in order to me how utterly they lack foundation in knowledge and to appreciate the state of perplayity in which legislators must find themselves when asked to exact opinions of this character into laws.

We do not wish to be missaderstood. We do not mean to say that until knowledge ill perfect and complete we should make no efforts to reform ectual offenders or to deter potential offenders or otherwise to arevent crime. In the absence of knowledge we must proceed as intelligently as we can to the only way in which we can, namely, by the process of trial and error, but we should realise what we are doing. We should recognize the difference between the unscess of trial and error as a method of attempting to solve practical problems and a supplies technology which rests upon knowledge of the means and reletion. Unfortunately, the uncertain and tentative character of existing and proposed mathods of treating offenders and of secrenting crims has been contended by the introduction of opinious about their efficiency as If they were knowledge. Only harm one result from such selfdeception. We should recognize that we arecord by trial and

To should be obvious that compared to the grabine of controlling oriented by-bavier all offers products of crime from relatively unique limits. For example, we can up that operations in he administrative used (New Capter III), Section 5), the ad-ministration of the oriented law would be perfectly efficient II all parsons who accepted by the treatment (control of the crimenal law. The constitute he make proline of administrative efficiency in the field of translate limits. Now, if the result of the treatment of criminals is to increase values than to familiate the volume of orient, a matter about which we again have no inswellage, the more efficiently we obtainsize the criminal law for electrotripes will laws. From this youth of view, It would seem patch make law plants to minimage to gain knowledge about criminal behavior that the objusts to upon the submit as minimage to gain knowledge about criminal

error only because we lack knowledge, and we abould regard whatever we do me part of an experiment in gala knowledge, even though for the present we shall be unable, as we have seen, to discover the efficiency of the means which we coupley to control criminal behavior. Otherwise we may full to try to obtain the knowledge which we so expently seed.

Furthermore, we should be keenly aware of the limitations of the process of trial and error in the control of crime. As we have said, trial and error in the only way in which we can attempt to solve practical problems in the absence of knowledge. As the situations from which practical problems emerge and the phanomma with which they are concerned become more and more complex, it becomes increasingly difficult for us both to make valid observations and to interpret what we cheere by common some generalisations. This is the predicament in which we find oursalvas with respect to the very complex spectical problems involved in the control of criminal behavior; common same is unable to discover the causes of crime. Hence, until we obtain scientific knowledge of the etiology of crimical behavior, we can attempt to control crime acither by a genuine technology nor by procedures resting upon common sense knowledge, but only by a process of trial and error.

The tremendous complenity of the phenomena of criminal behavior is apparent from our discussion of what is involved in accorniting its causes, or, indeed, in the loss discutt enterprise of differentiating criminals from non-vasicable. Compan sense of differentiating criminals from non-vasicable. Compan sense of the contrast of even in differentiating criminals from non-criminals ill terms of some set of human and environmental facture. At the most, we can, and do, observe some of the characteristics of criminals and that environments, and thus form againtons about the former of crime. These opinious are reflected in all of the numerous proposals for the alteration of the treatment process and for the modification ill programs of crime prevention. It to obvious that

[&]quot;The insignificance of the etectacies in tradiment and provenium, discussed in Touters VI and VII, unless this close, "See Chapter II.

at their best they can be no more than guesses which may be right but which are as likely, if not more likely, to be wrong, It is equally plain that if the means which we contrive on the basis of such spinious for controlling priminal bahavior are in fact adapted to our purpose, it will be by chance.

We do not seek to minimise the rôle which chance can play In practical affairs, but only to compliance the fortuitous and padenendable character of such section as we may achieve by the process of trial and error in attempts to solve practical problems as complex as that of controlling crusinal behavior. If by chance we succeed in controlling crime to any extent, we will be unable to explain per secress and, hence, to repeat it except again. by chance. It is desirable that crime should is prevented and prevention is none the loss decirable for being secidental. Howeyer, it is not desirable that we should deceive ourselves shout what we are doing. If we practice self-decestion we shall fail . appreciate how ignorant we are and to realise that afforts to develop a science of criminology are of greater practical importance than immediate efforts at crime control. Proccupation with argant practical problems too often leads the practical mun man into impracticality. As a result, he unwisely abuts his eyes to the importance of recearch or ineless that research shall be undertaken with his practical problems immediately in view. It is as a result of such indutence that a great part of criminological research has been promoted and undertaken. The insignificance of the knowledge which such research has fielded and its inutility is practice indicate that scientific research cannot be fruitfally directed toward the solution of immediate practical problems except in those fields in which there exist highly developed ampleical sciences.

In the remainder of this chapter we shall summerise and criticise the modifications of the treatment process and the programs of prevention which have been proposed. We shall view these m proposed solutions of gractical problems. We shall criticise them in the light of our ignorance of the causes of crime and of the effects of the modes of treatment and the accreative devices which we now employ. In this way, we shall exhibit each of these propossils as being based upon an opinion with so little evidence to support II that it can be defended only (1) as a trial and error attempt at chance success or (2) as an experimental project which, of course, cannot be properly undertaken in the absence of a science of criminology to furnish the theory and the knowledge by which experiments must be directed.

Section 2. Processes for the Madification of the Treatment Process.

If the treatment process to viewed in relation to criminal behavior, its ends are the deterrence of the potential offendar and the reformation of the ectual effender. Deterrance and reformation are merely two assects of the same thing, namely, the influence which the treatment of offenders may exert to prevant crims. Nevertheless, the influence of treatment upon individuals who have never offended and upon those who have, may be different; and it is for this reason that throughout this discussion we have separated deterrance and reformation.

Our desire to reform actual offenders and at the same time to dater potential offenders presents a serious difficulty in the systemation of a mode of treatment on a preventive device. It is possible that any mode of treatment may have a value as a deterrent greater or less than, or the same as, the value which it possame as a reformative. There are then elternative of policy to be considered. If the control of crime is our goal, perhaps treatment abould be played with a view primarily to deterrence rather than to reformation, or vice worse. Unfortunately, we have no knowledge to enable us to answer any # those questions or to guide us in considering these alternatives of policy. Wa do not know what attributes a mode of treatment must have in order to exact either the desired deterrent or the desired reformative effect. We do not know what stirributes a mode of treatment must have if it is to achieve a happy combination of both determent and reformative effects. We do not know whether any proposed method of treatment which may be furtified in terms of its possible referentive effect, will or will not result in diminished determine.

Proposals for the modification of the pro-conviction processes of criminal justice can, however, he considered primarily in relation to the end of deterrence. These proposals fall into two groups. The first along at increasing the efficiency of the administration of the criminal law, the efficiency of police, prosecuting and judicial agencies." It is assumed that increased efficiency in the administration of the criminal law is a means to deterrence; that is, that if the police were more excessful in detecting crimes and in identifying and apprehending crimingle, and if the agenties of prosecution were more successful in convicting criminals, fewer crimes would be committed. This assumption often expresses itself in the opinion that the certain and speedy conviction of criminals has value as a deterrent. This is merely an opinion; we have absolutely no knowledge upon which to bese the judgment that calarity and certainty in the apprehencion and conviction of criminals have deterrent efficier. To not this more receivaly, we do not know what ill the relation between deterrence and various degrees of certainty and celerity. We do not know with what other factors these factors must cooperate in order to dater potential offenders, if they do. In short, these proposals for the modification of the pre-conviction processes of criminal justice for the purpose of increasing their value as deterrents cannot be advanced as anything except guesses.

The second group since at changes in what we have called the pre-conviction treatment of offenders. Here there are such questions as whether specific police practices, such as the third degree or the routine of the police courts, or the characteristics of falls in which persons accused of crime are temporarily detained exert a positive or a negative industree upon potential offenders. Similarly, the use of psychological apparatus and techniques and the examination of accused offenders before a magistrate have been proposed as substitutes for the third degree.

We are utterly ignorant of what the adoption of any of these proposals would mean in terms of criminal behavior. We do not know whether pre-conviction treatment would then have greater or less or the same inciting or inhibiting effect upon the behavior of persons charged with crime. It is treslessest to defend such proposals by reference to the greater humanity of the proposed methods or to any other end, if the end under consideration is that of influencing the behavior of potential offenders. Similar comment can made upon the proposal that psychiatrists be attached I courts to samet judges in determining how felons should be treated, and upon the proposal that the function of sentencing convicted persons be taken away from the judges and vested in an administrative hourd composed of criminologists. prychiatrists and other experts.

We shall now turn to proposale for the modification of the post-conviction treatment of offenders. Here we must consider both the end of deterrence and the end of reformation, and must remember that one and the same made of treatment may serve these two ends quite differently.

Our survey of the researches in treatment has revealed that we do not possess any knowledge of either the datarrent or the reformative effects of any mode of pest-conviction treatment, existing or proposed. We have already referred to the purplexity of an intalligent legislator who would attempt to device a system of post-conviction treatment with a view to deterrence and reformation, a perplexity which arises out of the large number and wide variety of the modes of treatment, existing and proposed, shout the deterrest and reformative values of which we have no knowledge.10 We can illustrate the bewildering array of alternatives which he has, by reference to variations in imprisonment which are practised or proposed. Thus, there are the indatarminute sentence; the specialization of prisons for verious classes of offenders, juveniles, women, the immae, the mentally defective, the negro, electribes and so on; progressive liberation from im-

 $^{^{10}\}mathrm{Au}$ accomplete enumeration of examing and gaugesed methods of post-conviction treatment, without any discreption of them, would fill about inventy-free prairies pages of this stra.

prisonment, involving prisons of three types, the sifting or study. the intermediate, and the discharge prisons; the individualized treatment of offenders, a term which comprehends a vast number of proposals such as the classification of offenders, the specialisation of penal and correctional institutions, the existation of psychistric, psychoansivite and other psychological facilities, the use of social workers, personnel officers and so on; improved and enlarged medical service and psychotherapy; occupational and recreational therapy; abolition of life imprisonment; preventive detantion; innerations in the social and political life of prisoners. such as compulsory gymanotics, music, better libraries, reading rooms, etc.; self-government; dimination of the horrors of prison life by improvements in prison diet, better muliation, reduction of the monotony of prison life, and so on; innovations of many sorts in orison labor and | prison architecture: installment imprisonment; changes to prison personnel and administration; and so on, almost ad definitum.

In so far as any of these varieties of imprisonment are practiced or proposed with deterrence or reformation as the and in view, they cannot be justified on the grounds of any knowledge whatsoover. There is no doubt that the enessees of this or that variation in the treatment process believe that it will be highly efficacious in reducing the volume of crime, but in no case is there a clear ground for such a belief. By a clear ground we mean unequivocally definite and valid empirical knowledge.

It is unfortunate that where action is so orgent it must be undertaken without stillclent knowledge. It is probably for this reason that so many changes in treatment have been undertaken or proposed without any knowledge that they are or would be better than previous practices. The sponsors of variations in treatment have been able to advance arguments for their proposals which superficially appear to be based upon knowledge. However, as some an one distinguishes sharply between theory and conjecture and between knowledge and opinion, it becomes clear that such argaments are specious. The justification for any charge is treatment is, or we have said, not that knowledge

warrants the belief in the greater efficiency of the new method, but rather that our ignorance and the exigent character of our practical problem waterast our proceeding more or less blindly.

If, therefore, the administrator and the legislator are interested in the reformative and deterrent values of treatment, they should be advised that from that point of view every method !! treatment, existing and proposed, should be regarded as part of an experiment. To consider methods of treatment in that light will tend to do away with the empty discussions which they engander, the pres and come of which are equally opinionative and conjecturel. Furthermore, if the administrator and the legislator view methods of treatment as experiments, they will be inclined both to aid empirical studies of their causal efficacy and to most the mid of remonsible scientists in currying out experiments which they themselves initiate, if and when, in time, such experiments are possible. If a resperchement of this nort could be established between legislators, administrators and investigators til the field of treatment, it would do more than anything size to further our knowledge of the effects of treatment. and thus make it probable that definite and reliable knowledge will more quickly be available for the guidance of legislators and administrators in their practical affairs.

Section 3. Proposed Plans and Programs for the Prevention of Crims.

In order briefly to summarise the various proposals which have been made in the interest of crime prevention we have grouped them by reference to the factor or factors which are supposed to be responsible, in part at least, for criminal behavior. Although we have no knowledge of the causal influence of any factor upon criminal behavior, each of these proposed plans to reduce the amount of crime in a community is based upon the supposition that some factor is stichagically significant. We. therefore, refer is the case of each of these proposals to the various sections of the chapter on camution in which the researches concerning them factors are commercial and criticised.

- (1) Prevention : control of the factors of horadity." These include whatever inheritable mental or physical traits are supposed to be causally related to criminal behavior. These factors are to be exterminated by interfering with their transmission. The usual technique of control suggested in some form of starillsetion either by surgery or acgregation. Engenic programs are similarly directed toward the improvement of the human brood.
- (2) Precention by the control of the factors of physical and mental defect.13 It is here proposed that prevention be achieved by the elimination or amelioration of various physical and mental deficiencies. Segregation and training are suggested as manus to this sud. By segregation individuals who are supposed to have criminal propensities are to be incapacitated from committing crimes. By training it is supposed that these criminal propenalties can be modified and rendered innormous. The most specific proposal which has been made in this connection is based upon the recognition of different hinds of intelligence and the fact that the foshlemizeted often have mechanical shillities which can be vocationally trained and guided. Military training has also been recommended for its disciplinary value.
- (8) Prevention by control of the featers of mental adnormality other than feeblemendedness " Here we have what is probably the largest group of programs, psychiatric ped-analysis, child guidance clinics and public school measures for dealing with the problem child. Under the head of abnormalities are included all sorts of maladisastment, from that of the problem child and the invenile psychopath to that of the adult nearette and psychotic. The preventive idea is throughout the same. assumes that mental abnormality is a cause of criminal activity. Since the hous is to prevent crime by reducing the amount of almormality in the community, these preventive programs must not be confused with the various proposals of psychiatrists that the abnormal offender he reformed by some kind of paychotherapy.

¹¹ See p. 107, ff. 10 Sec p 100, ff. 10 Sec p. 119, ff.

We are here dealing with the potential rather than the actual offender. But since the delinquest is a potential criminal, just as the problem child is a potential delinquent, there is some overlapping of the each of deterrence and reformation.

- (4) Procention by control of economic conditions.14 The assumption here is that poverty and the immediate consequences of poverty, such as idleness, distanteful occupation, ill health, bad living conditions, etc., are among the causes of crime and should therefore be erudiented. Bountimes the preventive program is not to eradicate porcety but to alleviate the economic and spoint condition of the lum fortunate groups of seciety."
- (5) Precention by control of domestic factors.14 Here the staps which have been proposed are directed either toward ramoving the child from an irremediably poor some environment or toward improving the home cavironment. This is largely the field of the social worter and the visiting teacher. The placement of the child in homes as opposed to his commitment to institutions is one of the Serious which has been tried in recent years. It is assumed that the deterioration and disorganisation of family life is a cause of crime; bence. If is proposed that the school or some other social agency help to prevent crisce by taking over the unfaldlied function of the family in the moral and social tradular of the child.
- (6) Precention through social reorganization.17 We have here all 31 the schemes for altering the fundamental atructure of society in such a way that the social causes of crime will be controlled. These rames from fencism at one extreme to socialism and communium at the other.
- (7) Prevention by the control of inciting information." The motion picture, the press, the novel, are supposed to be causes of

¹⁴See p. 129, ff.
¹⁵The cost somerous of their are solvenous schemes involving to some way to other the reconstruction of monty. These are decounted below. 145er p. 125, ff.

¹⁷ There are no quantificative studies 19 There are no constitution student

crime, and it has therefore been suggested that concernin would be a preventive of crime. On the side of strengthening the inhibiting factors, it has been suggested that properly instructive and educative motion pictures, fiction, etc., he substituted for the kind which makes crime seem a plorious and lucrative errofession.

- (8) Prevention by the control of alcoholic beograpes and drugs.14 The assumption here is that each of these substances is responsible to a greater or loss degree for criminal behavior. both that involved in infractions of the laws prohibiting the pae of such exhatances, and other criminal conduct. The prohibitive laws thereolyse, such as the Anti-Naccotic Low and the National Prohibition Act, have proved highly inefficient to prevent the sonduct which they prohibit, and educational work tending toward. the cradication of the cylls of drug addiction and intemperance has been recommanded in their stead. Another proposed preventive measure is the remedial messure of curing the alcoholic or the drug addict. Recearches under this general head should be grounded on more adequate imoviedge of physiological effects and should be freed from the propagandist basis underlying so many of the current researches.
- (8) Prevention by means of school and shorth. Here, in general, we have all the plane for eliminating from the school may an ingrituden those aspects which rend toward maladjastment and thus toward criminal activity; and, on the other hand, pronoted alterations in the school system to make II a more effective armer of moral education, character training and child suidance. If has been sought to effect the transformation of the school into a behavior training organisation rather than an instrument of formal education by the introduction of psychiatric and mental bygiens services and the visiting teacher for dealing with probless children. The school is also making an effort to organise the child's athletic and artistic responses, etc., and, in general, to carry on the work that the home and the church to some extent are failing to perform in modern society.

¹⁹Sect p. 132, S. Performants are apprehingly attached.

(10) Presention be central of the physical and social characteristics of the community." Under this rabric, we have such plans as those seeking the elimination of boys' games, undirected street play, etc., by the introduction into the community of playgrounds, settlement houses, hope chalm, etc. The eradication of the obnoxious characteristics of a community and the substitution. of more beneficial features have elicited a considerable degree of interest and the bulk of the researches which have been done in the sphere of crime prevention.**

All of the forestong programs in prevention are subject to the criticiams we have already made of proposed modifications of the treatment process. In almost every case they are advanced by their sponsors as if they were clearly based upon knowledge. They have, of course, no such foundation. They are rather based upon opinions which are hazarded in the absence of knowledge because of argent practical needs. Furthermore, those programs are for the most part extremely simple-misded. They completely isnore the complexity of the etfology of human behavior. They seem to suppose that, by removing or introducing this or that single factor, the causal nexus will be radically changed. Not only is the pingulity of causes discovereded but their interrelationskin as well. Cansal factors cannot be added to se subtracted from a causal complex as so many separate items.

These proposale for the prevention of crime, like proposals for the modification of the treatment process, must therefore be viewed either as triel and error projects or as experimental undertakings for the sake of increasing our knowledge of the causes of crime. As we have said before, it is doubtful whether experimental work can be planned and executed in the present state of criminology. At any rate, it is important to recognise that if the spinions upon which these plaza are hand are treated as if they were impulsize, the actual practice of prevention between manifestant and specifical and the possible

615m a 135, 6.

Wife here streety agreement and criticisal them. See Chapter VIII.

future unrightern of preventive activities as experiments in criminalogy is seriously impaired.

Section 4. Conclusion: The Insultability of Orient.

The problem of the control of crime, either by treatment or prevention, raises what is probably the most tradamental question, which can be naked about crime. We have previously distinguished two possible goals of efforts to control crime: (1) the alimination of all crime from the community; and (3) a reduction of the amount of crime in the community; we gostponed the consideration of the first of these two objectives. We must now relate the question as to whether it is or is not sitainable. A practical plan is worthy of consideration only if it is practicable and if its objective is attainable. It is, therefore, important to recognise that the understanding which we have of human nature and imman society implies the inevitability of crime and the immostibility of its used elimination.

In the first place, crime is a symptom of the imperfection of human society. In the second place, crime is a symptom of the imperfection of the human being as a cotal agent. These two imperfections are aspects of the same thing, the incompatibility of the sum total of human impulses with the damands of any constituted acciety. To view the complete simination of orims as a goal which mass can achieve in to believe that human perfection and the perfection of human sectlety are capable of being realised. While the loop few perfection is in itself admirable, the recognition of the limitation of human powers to achieve perfection is essential to the wisdom and humility without which attempts to solve the mobilems of crime must be unknowled.

PART THERE

CRIMINAL JUSTICE

Chapter IX

PERSONNES IN THE ADMINISTRATION OF THE CRIMINAL LAW

Section 1. Preliminary Discussion: Problems and Methods.

The administration of the criminal faw is a practical activity.1 Like most practical activities, it is executed with some measure of efficiency less than perfection. But the mefficiency of criminal justice is commonly thought to be greater than it need be. The affalancy of sylminal justice is not measured against the standard absolute perfection, but against some standard which is thought to be attainable and which we desire to attain." The problems of criminal justice which we shall consider in this chapter and which we shall call administrative problems, have their origin in the recognition of the varying degrees of efficiency with which the criminal law can be enforced.5

We draft the the pheno 'transmit param' on abbrevious for his pirque 'the administration of the craterial line'. The abscurate of crawnell partner are the influence in was disc conferenced. In who dispier we shall be conserted with problems aroung out of the colorerouse of the crawnell have, an Chapter XI we shall be concerned with the crawnell live spirit lives the administration.

First well known declars of the line Cheef Justice Tell, uttered in 1998, that he administration of the crawnell live at America, we a degree to crivilantica, probably does not express too strongly corroot spiritude repairing the medicinent, with which the oriminal lives in bothy administration to the country. This standard is maintreasured. Indicators we are degree of differency in the unforcement of the cortisated laws is interfaced by the set another to bothy with the large of the cortisated laws in the set of the control laws in the set of the control laws in the control laws to the set of the law in the large of the cortisated laws in the large of the cortisated laws in the large of the laws in the large of the large of the cortisated laws in the large of the large of the cortisated law is set that the large of the cortisated law in the large of the

At a obviers that anyone who a mainful with the degree of afficiency at process achieved by ground picture will recognize no practical problems of an administrative such

Practical administrative problems are all concerned with increating the efficiency of the procusses of criminal justice. In an far as knowledge can be need to make the administration of the criminal law more efficient, these practical problems have theoretical superior. But administrative problems are primarily practical in the sease that our first interest is a criminal justice is in its efficiency as a practical activity. We must and can administer the criminal law whether or not we have knowledge of the conditions of its efficiency.

It is necessary here briefly to distinguish between the problems III criminal justice and those of criminal open and III directly or indirectly evenoweed with the etiology of crime, and III is for that reason that we have called them problems in criminal behavior. The problems of criminal justice are not at all concarned with criminal behavior. They are exclusively administrative problems concurred only with the efficiency of criminal justice and that of each of its processes. Questions about administrative and that of each of its processes as means to cartain ends, and into the adaptation of these processes as means to cartain ends, and into the factors upon which varying degrees of efficiency depend. The distinction between criminology and criminal justice can therefore be made by distinguishing between the problem of the etiology of carinical behavior and the problem of the otiology of administrative efficiency.

The end which criminal jostica agrees is the application of the treatment content of the criminal law to individuals who violate the prohibitions formulated by its behavior content. But this end, which defines the busic purpose of edistinistration, is not an altimate objective. If it were, we should be administrating the criminal law for the sales of enfancing it, and that would be

Filter the problems of creation justice are grammily practical problems can be seen by contract with the problems of creationing whech are presently theoretical problems. In this field of countering we can be affected in the tabure and extess of creation between the contract of creation behavior and causes of creation behavior cannot behavior. The practical activities provides in the cause of creation behavior cannot be accessfully interrules; in the absence of involvings of the causes of cranical behavior, as we have seen; but as we shall not, the administration of the cleaned law is a practical activity which can be performed with public degree of afficiency without knowledge of the confidence of efficient plants.

abourd. The criminal law is administered ill order to achieve the ultimate end of the criminal law, which is either punitive retribution or the protection of society against crime. Thus, if the ultimate end he retributive justice, the criminal law is administared in order to punish offenders; if the social good he the end. it is administered for the purpose of incapacitating and reforming actual offenders and of deterring potential offenders. Incapacitation, reformation and deterrence are in turn the means by which we seek to protect anciety by controlling oriminal behavior. In order to achieve either of them two ultimate ands or any of the intermediate ends which are means to them, we must enforce the criminal law. In order to enforce the criminal law we must detect crime, identify, apprehend, prosecute and convict criminals, and subject convicts to treatment. In other words, treatment must be preceded by conviction; conviction must be precoded by prosecution; prosecution must be preceded by apprehension; apprehension must be preceded by identification; and identification must be preceded by the discovery of crimes which have been committed.

The administraction of the criminal law is those divisible into a number of processes, each of which serves a subordinate administrative purpose. Just as we do not edminister the criminal, law for its own sake, so we do not discover crimes, identify and apprehend oriminals, prosecute and convict them, for the sake III doing these things, but is order to subject the convicted criminal to treatment. In short, all of the precesses of criminal, justice which proceed conviction are means to the end of treatment which, in true, is a means either to retributive justice or 60 the social whither. Furthermore, it is obvious that each of the processes of criminal justice which precede conviction in a means to the footification in a means to the footification; thus, the discovery of crimes is a means to the footification; thus, the discovery of crimes is a means to the footification.

Transferent, that is, the infinite of gain, may of course by a masse to reforms-

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[&]quot;We have previously discussed these two ultimete code as the objectives of existing systems of extramal fundam. In Chapter 22 we deal subscept to number the question with about the bins offermed of the crimed of the contract of the previous statement of the contract of the contract of the criminal law is not as altimate and feet in a masse to whatever is the nitrinsteent of the criminal law.

cation and apprehension of criminals which, in turn, is a means to their prosecution which, in turn, is a means to their conviction.

We must, however, take account of ends which are tangential to this strictly linear series of means and code, starting with the discovery of crimes and cading ultimetely with either retributive justice or the protection of suciety. Thus, one of our sims in administering the criminal law may be economy in the use of public funds. But economy as an end is not a means either to punishment, inexpecitation, reformation or deterrence. It may, in fact, be inconsistent with them purposes; eccomplest administration may make for administrative inefficiency in other respects.³ Eimilarly, the administration of the criminal law may be guided by such interests as the protection of citizens against the arbitrary action of officials and the protection of the impount who may be presecuted.* These interests define administrative ands which are not means to presistment, incornecitation, reforms-

¹⁹⁴th, for appropriate on the currency and colorer of administration.

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the this of dysophical of the silo community of the complete is prove along that of the criminal with which has of charged, so, or cardial construct of indigating devices and opportunities of manage affected in the accumal parque are managery to a proper infenditurbent of the criminal laws, and it we direct associates to be devicted that the criminal control of the order of the deviction of the cardinal laws, and it we direct associates to the control of the deviction of the cardinal laws, and it was often as successful as which experience has absorbed to the control of the direct associates and the successful production of the associate has a finite supported by the cardinal deciriments of cardinal deciriments of cardinal that cardinal deciriments of cardinal that cardinal deciriments of cardinal that cardinal that

tion, or determine. They are not nitimate ends, however; they are means to the social welfare without heling means to the treatment of offenders. It is in this sense that they are tengential to the processes of criminal justice viewed as means to the nitimate ends of retributive justice and the protection of society against criminal behavior.

The administration of the criminal law can be divided into the processes which are prior to, and the processes which are subsequent to, conviction. In order to understand the nature of administrative problems, it is measury to distinguish also between consecutive and alternative processes, between complex processes and their constituent or embeldiery processes, and between processes and varieties of processes. The major pre-conviction and post-conviction processes are consecutively related: they are not alternative to each other. Thus, the sentence, imprisonment, and perole or person are consecutive, whereas imprisonment and probation are alternative, post-conviction proceases. In the same way, detection, identification, apprehenden and proposition are consecutive, whereas accessition by indictment and accusation by information and trial by jury and trial without jury are alternative, pre-conviction processes. This distinction between consecutive and alternative processes is important because we have no choice between consecutive processes in the administration of criminal law.10 Practical administrative problems must therefore be limited to choices between alternative processes or, as we shall see, different varieties of the same DFOCKEL.²³

Many of the processes of criminal justice are extremely complex, and more of them is simple. The store complex are the major processes of detection, of identification and apprehension, of prosecution, of sentencing, and of treatment. Thus, the process of

¹⁸ We can only choose between alternative means to the same end, we cannot choose between means to different ends. Communitive processor over those makes to different ends, afternative processor and number of the outside process are always and summan of the outside process are always.

controlle, come, internatura provisions mais transmits of the same process are always to the same such.

Lithers is considering the practical profitions which we shall decome later. Each of the tangent, or the of minimalizations can be varied as presenting an electrostree, thus, we can decode simpler or not so endisorer to project educate against abuses of official power, cir.

projectation in felous cases comists in the autordinate processes of the preliminary bouring, the accumation, the trial and, often, the appeal; and each of these is itself a very complicated process. These processes of which presention is composed are consecutive; like the major processes of criminal instice they follow one another in throughnies) order; but there are, as we have pointed out, alternative processes of accession and of trial. None III the major pre-conviction processes are alternative | one another: I so far an alternative pre-conviction processes exist, they are giways subordinate processes which enter into some more cumplan process. Thus, the arrest and the summons are alternative methods of approbending criminals; bail and detention in fall are alternative methods of securing the appearance of paraons charged with crime at various stages of their prosecution; the indictment and the information are alternative methods of officially notifying accessed persons of the crimes with which they are charged; and trial by jury and trial without jury are alternative methods of establishing the guilt or juncourse of alleged offenders.18

The processes of criminal fastice, whether they be those which are prior or those which are subsequent to conviction, whether they be major or subordinate, whether they be consecutive or alternative, have many varieties." In order to understand the origin and nature both of alternative processes and of different varieties of the same process, we must consider, first, the character of the institutions which are the instrumentalities by which

ilifogue of these albestistive processis, for cissangle, indicturant and information, bid and detaution, trait by jusy and trail under pay, very crust in the anticommunicative system, some of these way be employed in one jurisdiction and others in another for example, indictionant may be exclusively employed in other in another for dominations in element consist down informations, and other in another for a domination in element consist down from the control of the process of the employed it may along the process can be employed in our principle. The succession of the employed it may along the processing the threshold these interactions of crume of on what conditions the options can be employed as what the expect of what these of crume of on what conditions the options can be executed.

While definitions which we are here analong between a pressure and a variety of a pricess is formally the same us the destructions when they made between a decision of the control of

the processes of criminal justice are executed; second, a body of laws which, taken together, we shall call the administrative code; and, third, the range of freedom or discretion which officials posace in respect to the requirer in which they shall discharge their duties.¹⁶

Til its trustment content the criminal law preacribes the modes by which persons convicted of crime shall be treated, but it does not itself otherwise prescribe or regulate the processes by which it shall be enforced. In so far as these precesses are astablished and regulated by law, this is done by the atministrative code. Just as the behavior content of the criminal law is the formal cause of crime, the administrative code is the formal cause of the administration of the criminal law.

The administrative code establishes the major processes of detection, of identificative and appealement, or prosecution, of montending, and of treatment, and the various consecutive mugidiary processes which necessarily enter into these processes. It also establishes alternative methods of executing some of these processes, such as the indictment and the ladormation as abbrantive methods of accusative, and trial by jury and trial without jury as glorensive methods of trial. It establishes these processes supressly, or it does so implicitly by defining the functions of

July a, of course, obvesse that for antenance of crasseal inches can be simultared only drough the activement of beams because, and it devoted be their the Out, while private as appeard to official pertons can participate in the unforcement of the primary of the private as appeared to official pertons can participate of the command for the primary of the private participate of the primary of the private participate of the participate of t

the institutions which it creates as the instrumentalities for the administration of the priminal law.

An institution can be thought of an an office or a structure of offices occupied by individuals who, in the nerformance of their official duties, exercise the powers and privileges with which they are endowed, and employ the physical facilities with which they are provided. In the main, we can distinguish three aspects of guy institution; (1) its structure or plan of organization, (2) its personnel, and (3) its material engineest and facilities. However, this separation of an issettation into the parts can be made only by abstraction. An institution is an opennism, in the functioning of which these parts are inseparably related. The same institution can differ from time to time, and institutions of the same reagral type can differ from one another, with respect to one of these three elements without differing in the other two. Thus, the personnel of an inetitation may vary without change in its organisation or his equipment. Similarly, the structure of an institution may vary without variation in its personnel or equipment; and alterations in its equipment may occur without changes in its personnel or structure. As an institution varies in one of these three wave, the manner in which it functions may vary. Since the processes of criminal justice are executed by the various institutions of criminal function, variations in the same process are III be understood III next in terms of institutional variations in organization, in personnel and in equipment. Thus the process of prosecution will very from time to time and from place | place with differences in the organization, in the personnel and in the facilities and equipment of the prosecutor's office. But the many varieties of the processes of criminal justice cannot be explained entirely in terms of institutional differences.

The administrative code, us we have said, creates the institutions of criminal justice. It establishes such asiminatrative offices as those of the sheriff, the elections must be preventing storacy, and such administrative departments as the police department and the parole board, and the inferior and superior courts; it arranges their structure or organization; it makes prevision for the personnel and the equipment motimary to suable them to discharge their functions. To a considerable degree it determines the character of the effectal personnel by prescribing the qualifications of officials, by fixing their compensation and their bearets and by specifying the methods by which they shall be chosen from the hody of citizens. To a considerable degree it also determines the character of the buildings, such as court houses, jails and prisons, and of the other physical facilities employed in the administration of the criminal law, either by specifying their character or limiting their cost. Finally, the administrative code, in that part of it which is known as the code of criminal procedure and the rules of wideous requisions the manner in which officials shall perform their duties.

The administrative code prescribes the consecutive and the alternative processes by which the criminal law is to be administered, in broad terms. It is partly for this reason that it is possible for those processes to be executed is meany different ways and for many varieties of them to exist. But the administrative code of any jurisdiction also determines, in part at land, the particular varieties of those processes to be employed in antorcing the criminal law in that jurisdiction. As we have seen, the processes of criminal justice will vary with varietions in the character of the institutions by which they are executed; and the character of the institutions by which they are executed; and the character of the institutions of criminal justice it any jurisdiction is

¹⁶ It will be readily seen that we have not assumeted to describe either the hardwistings of criminal justice of the coulons of the administrative tode in any depail, but only to induce their research demonster.

relig to mideate their approved obstractor.

**Thesi, the code of crammal preceding provides under what curromaintance and what manner officials may make arrests, and by some extent it regulates the minerance of convicts. Checkly, however, it could be some extent of regulates the preceding of the state of the state of prince and approximation, their which intervene herevers appreciantion and conviction, and by which the guilt or assressors of prizones around of crave to determined. Thus, it exhibits and regulates the provinces by which sloped convincion may be released to the provinces by which solved the provinces of the provinces by which solved to the provinces of the provinces by which they are precisionally accounted to the other convincions. The provinces of the provinces of the convincion of the provinces account of cross (The application of the convincion of the convincion regarding the provinces of the code of crossessi procedure and the law of a American Law Lincolnia, 1851, consideration from a religion of the convincion of the convi

largely determined by the minimistrative code which arranges their structure and provided for their personnel and equipment. However, again the administrative code speaks in very general terms. It does not plan the organisation of the institutions of criminal justice except in broad suttine; it three the qualities into of their personnel in such a way that it ill possible for persons of widaly different character and competence and experience to become officials; and while it presents the duties of officials; and while it presents the duties of officials of the general forms which the processes of criminal justice are required to take in any jurisdiction, officials are left with a considerable discretion as to the manner in which they shall exercise their powers and perform their duties. It is for these reasons that different varieties of the same process are discovered in a single intradiction.

Moreover, the administrative code is neither a complete set of rules for the regulation of the processes of cristian justice, nor a perfect creation of its institutional instrumentalities. The genarality and incompleteness of the administrative code has made it necessary for officials to device procedures which are not therein prescribed, and to alter institutions to conform to these procedures. Procedures have thus developed in the customery practices of officials which, while not authorized, are not prohibited by the administrative code. Such, for example, is the practice of processions of processing certain crimes and imposing others, or the practice of bargaining with persons accused of crime for pleas of guilty to less serious offences than those with which they are charged." Other procedures have developed in the customery practices of efficials which are not only unauthorised but are prohibited by the adadustrative code; that is, they are unlawful. Such, for example, is the practice commonly known as the "third degree", that is, the extortion of confusaions from persons accused of crime by force or other na-

¹¹Not the least valuable of the contributions of the crows surveys, to which we shall presently refer, has been there decleanes of the coincit to which procedures are employed in the admission to the examinal flow which are not provided for by the administrative code and which are constituted published by it.

lawful methods, the practice of demanding encestre bell from them, and the practice of unlawfully searching their homes or places of husiness for evidence to be used against them."

The sources of variation in the processes of criminal instice must now be clear. The major processes of criminal instice are everywhere the same and must necessarily be the same, which is only to my that the administration of the criminal law must everywhere of necessity cassist in the pre-conviction processes of discovering the crimes which are committed, and of identifying, apprehending, prosecuting, and trying the paracon who committed them, and the post-conviction processes of determining the mode by which coavicts are to be treated and of treating them. But these major processes will differ according as they are constituted by different subsedimete processes and these, in turn, will vary from time to time in the same place and from place to place, with variations in the institutional background of the processes and with variations both to the administrative code and in the customary practices of officials, whether those supplement or violate the administrative code. It is important to remember that in the United States there is not one criminal code. but fifty; not one administrative code, but fifty; and not one set of institutions for the enforcement of the criminal law, but fifty." There are many varieties of the processes of criminal justice not only in different jurisdictions, but also from time to time in the same jurisdiction. Indeed, they are not always uniform in different parts of the same jurisdiction at the same time.

In considering both the practical and the theoretical problems thing grow and of the enforcement of the trainiant law, it is therefore amential to distinguish between alternative processes and different varieties of the same process; and it is important to recognise that by a variety of a process we do not mean the behavior of individual officials. While the activities of which the

¹⁰Namely, these of the States, the District of Columbia and of the United States.

¹⁹We are treating the procedure of the finland and state operatorities, which repelled the processes of crossonil patterns as year to fine administrative code. For what are claimed to be included on the interactive of officials on the interactuation of the crimbal law, the reader can cannot the sequence of the Rational Commission entitled Lawlessees or Jane Malforoxamor.

administration of the criminal law consists, are obviously the activities of officials, it is only when those activities become stereotyped and general that they constitute varieties of administrative processes which can be identified and described. The behavior of individual officials, even of the same close, varies infinitely from day to day, and a sindy of such behavior has practical importance only in that it may make it possible to reform isolated local institutions. If we discover, for example, that the behavior of individual officials is corrupt, we can endeavoy to remove them and replace them with honest officials; we can, in a word, try to reform an institution of crimical justice as it exists at a particular time and place." But it is only when such conduct becomes typical and takes an institutionalised form in which it peases to be merely varietions in the behavior of narticular officials and becomes a variety of an administrative process, that knowledge of such variations acquires generality and, hence, theoretical significance. It is only then that it becomes useful in practice otherwise than as leading to the reform of isolated institutions. We shall therefore formulate both the practical and He theoretical problems growing out of the enforcement of the criminal law in terms of alternative processes and of different variation of the same process rather than in turns of the believior of particular officials or of officials of a particular closs. It is only in such terms that the researches in criminal justice can be conceived as having been directed towards an etlology of administrative efficiency."

We are now prepared to formulate the practical problems of criminal justice. They involve, first, a choice of what we have referred to as its supersial code, ends which are means bother

WThat is the graciful importance of each learningly as that obtained in the recent symplography of the magnitudes court at New York City, of the covered market of specific magnitudes, processions and professions

specific magnificing processions and potentials. We critic distinguish between sectionary of subsweet/wire; offercary and the reloiping of the behavior of individuals who langues to be effected. The letter is provided as all recognition and interest to the control of the control of the process of the control of the cont

to retributive justice nor to the central of criminal behavior. While we cannot choose whether or not to administer the criminal law, whether or not we shall enfeavor ## accomplish the detection of crimes, the identification and apprehension of the persons who commit them, and their conviction and treatment, we can choose whather or set in the course of the enforcement of the criminal law we shall attempt to suffices such ends as economy to the expenditure of public funds, or the protection of citizens against the arbitrary action of officials, or the protection of innocent persons egainst conviction for crimes which they have not committed.

For the rest, the practical problems of criminal furtice are questions as to means. The means by which the ends of criminal justice are attained are, of course, the processes of criminal justies. Since we have no choice as to whether or not we shall administer the criminal law, we have none as to whether or not we shall amploy the councestive processes of crimical justice. Practical problems as to means, therefore, present choices unly between alternative processes or among varieties of the same process. If we derive to achieve efficiency in educationstration, our aim must I to misci the more efficient of available alternative processes or. If only one process is available, to try to centrire a more officlent alternative method of accomplishing the same end. If a process has several varieties, our parpose must be to choose the most efficient or, if no revisitions exist, to try to very the process so sa to make it more efficient. In sedac to very a process, we may have to vary one or more of the elements of the institution by which that process is executed, either its structure or its per sound or its material facilities, or we may have to vary the environment in which the institution is functioning. Proposed changes of these hinds present practical problems 75 the sense that they require us to choose between the means which we employ in enforcing the criminal law and other means, existing or proposed.

Encyleige can be used both in solving practical problems involving a choice either between available processes or between gygilable and proposed processes, and also in medifying old proccenter or deviaing new processes in an effort to increase the efficiency of criminal justice. The theoretical questions in this field. indicate the kinds of knowledge which we can employ in the solution of these practical problems. They are few and they can he briefly stated. We can selt questions regarding the content of the administrative code, what its provisions are and how they have been judicially construed. Since the administrative code establishes the processes of crimical funtice and creates the institutions by which they are executed, knowledge of its provisions III seastiful to an understanding both of the phenomena of criminal instites as they exist and of proposals for increasing the efficiency of the administration of the criminal law. Moreover, it is often only by amending the administrative code that the processes of criminal fustice can altered. Many of the proposals for increasing the efficiency of the enforcement of the criminal law must therefore III viewed as proposals to amend the administrative code."

The remaining theoretical questions fall late two groups, the orthogonal consisting of questions about the nature and characteristics of the major and substitute processes of criminal justice and of their varieties, and about the nature and characteristics of the institutions of erizatian justice; and the eccoud, of questions about the efficiency of the processes and of varieties of the processes of criminal justice.

Fifther, such proposals as that the minerascan be employed restant of the halloment as the method of accentation as fellow; classe, that the presentant be persisted in comment town the finding of the secretary of the secretary of the secretary of the secretary of delense, that the organization of the crustomal counts be changed, that the office of public deficiality be created, and a hold of officiality, cannot be gas into prospect without amending the administrative rode. In general, it may be said that any proposal as a sharmony personal to the ambitionistic country of the secretary of the secretary of or in the meloods of ministrative rode as a symmetric contract of the secretary of the secretary of or in the meloods of ministrative rode as a symmetric contract of the secretary of the secretary of the secretary of the other hand, there are many proposals for mercanous the efficiency of criminal justice which can be jet that to proposal that problems of in the administrative rode, may for a supportment of feeder destroid administrative to disposaled in the selection and proportion of forced destrict almost and sense and sequences of policy of the minor courts be calculated with order and feeders.

We can impaire into the precise character of each of the proccoses of criminal justice on it is executed at a given time and place. As we have seen, while the administrative code establishes and regulates these processes, while it prescribes them. III does not describe the menner in which they are executed. The administrative code does not give us information regarding the many varieties of each of the protosum which it creates. Enpwieder of the provisions of the criminal code is not knowledge of what actually occurs in the enforcement of the criminal law. Knowledge of this sort can be obtained only by observation of the ways in which the processes of criminal fustice are actually executed.

We can also inquire into the precise characteristics of the institutions of criminal justice. While the administrative code creates these institutions, it does not describe them as they artnally suist. Enowledge of the provisions of the administrative code relating to the etructure, the personnel, and the material equipment of these institutions is not knowledge of the manner in which they are in fact organized and administered, or III the way in which they function in fact, or of the precise characteristics it their personnel and meterial enginment. Such knowledge of the institutions of exterinal fration can be obtained only by obtarying them as they are.

Questions about the efficiency of the administration of the criminal law or that of any of the processes or any of the varieties of any process III criminal justice take different forms." In the

⁵⁶Constrons about the officency of this implements of crassinal justice may be under strainedly asked. Thus, it can be asked whether or wor the Crosspa or the New York poles department in Clicians. But us way, as the question in asked, it is testa that it must be slaberated. Efficiency supresses or relation between means and out, and the strained of the detection of crass and discussions are supplied to the strained of the detection of crass and the stematicates and approximate and processes of the protection of crass and the stematicates and suprehensians of crassinals. But this is precedy the same questions to blat of the efficiency of the particular varieties of the protection of crass and the stematicates and suprehensians that are employed by grown police departments. In other words, precisions as not the efficiency of understanding crassinals which are employed by grown police departments. In other words, to expense the supplied of the strained of the

first place, we must assertain and distinguish among the various criteria in terms of which efficiency can be measured. Thus, for example, certainty and calcrity are such criteria. By certainty we mean the degree to which eximinal funtion or any of its processes achieves given administrative ends. Thus, attempts have been made to measure the certainty of the process of detection by the ratio between the number of crimes that are committed and the number that are discovered; that of the processes of identification and apprehension by the ratio between the number of crimes that are discovered and the number of acrosts; that of the process of prosecution by the ratio between the number of greests and the another of convictions; and that of criminal fastice as a whole by the ratio between the number of crimes which are committed (or which are known to the police or the number of arrests) and the number of eximinals who are subjected to nost-conviction treatmant."

By celerity we mean the speed with which any process is sampleted. Thus, the celerity of the process of prosecution in falony cases can III measured by the time chapting between the preliminary hearing, which is respected as the first step III procecution, and conviction or sequitas. If Similarly, financial ecoomy can be used as a criteriou of efficiency. There are still other retierly, expecially in the case of the post-conviction processes,

has gold of its pressure only suggesty on sames of more or less, and we can sayor form that Our approach in decidion.

Wife that! Inter growing this consequent of certainty to a character of afficiency of

to what degree of celerity it t of efficiency. Portraps we derie of efficiency, space it w

but with severity and sevicement. By covering a new rest instinctive, since it treated and celerity, treated acidly by parcive methods. By maintaining a new rest to the present who visite the same probabilities of the crummal law should be trained, also be fast we can measure severity and maintaining only in brane of certaining. We can receive severity and maintaining only in brane of certaining. We can receive severity and the primarily cally in brane of certaining where the maintaining only in brane of certaining where the maintaining of the primarily can be constanted only by some method and in this between the way, uniformly can be constanted only by some method and in this between the member of persons who commit specific crustees and the pushform of the president of the specific contained of the member.

such as the security of convicts against carage, the physical and mental health of convicts, the value of the products of their labor, and so on." Pinally, it should be mid that these different criteria. of efficiency may be incommissent with one another. We may, for example, discover that the greater the celetity of a process, the less its certainty, or that the greater its certainty, the less its aconomy.M

In the next place, we can distinguish among questions of efficiency according as they are mixed with respect to a single process, or with respect to alternative processes, or with respect to the same process at different times and places. The first type of quartion asks how efficient any process or any variety of a process of criminal justice in. We almost always know that it is afficient to some degree, but we do not know the precise degree of its efficiency. We usually know that it is officient to some degree because we usually know that to some extent the purpose for which it is being amployed is being accomplished. Usually, therefore, to securiain the officiency of any of the procumes of criminal justice we need only escertain the degree to which the and of that process is being achieved.

The second type of question cain about the efficiency of one process in relation to the efficiency of some other process directed to the same and. We can inquire into the relative efficiency of processes which are alternative to one another, or into the relative officiency of varieties of the mass process. Alternative processes or different varieties of the same process are different means to the same end; hence, their relative efficiency can be measured in terms of the degree to which they respectively accomplish this end,

The third type of question sake about the comparative efficiency of the some protess or the sines variety of a process at different times or olders. Since the process or the variety of the

MAI we shall see, we do not may know definingly what we the relations among the various orders at efficiency.

[&]quot;We have not attempted on enhancing communities but only a sampling of the enhancing of administrative efficiency." To make an estimative intersection, we would have to attain a rather present yourself of the could, both intermediate and lampertial, which we existence to exhibit we estimate the crassical law. This we would find extremely difficult to do, since these confisions in sings guart confision and vagor

process is the same, differences in comparative efficiency must be due to differences in the situations in which the process is employed.

Knowledge of the efficiency of a single process, or of the relative efficiency of alternative processes, or of the comparative efficiency of the same process under different decumstance, does not tall us why any process is inefficient or why there are differences in the degrees of efficiency of different processes. The final question is this group, therefore, asks about the causes of inefficiency. Whereas knowledge of their relative efficiency suchlass us to choose the more efficient wantleble alternative processes, we cannot device more efficient means than any which are available, unless we possess knowledge of the factors upon which degrees of efficiency is absinisheration depend.

In the light of this brief discussion of the theoretical quantions which can be asked about the administration of the criminal law. we can introduce our survey of the researches in criminal justice In the first place, we much distinguish between knowledge which we possess apart from these researches and knowledge which we have obtained as a result of them. Knowledge of the former port is common sense knowledge of the conditions of the efficiency of any practical activity. It is not limited to the administration of the criminal law. We do not seed to await the conclusions of research in order to know some of the conditions of efficient praction whether in business or in public affairs. This knowledge consists of common scare generalizations which answer etiological questions, that is, questions regarding the eduptation of means to ends. Thus, we know that the efficiency of any practical undertaking is, in part, a function of the character of the human beings who conduct it, their skill and intelligence; we know that the efficiency of practical enterprises will vary with different types of institutional organization; we know that inedequate physical facilities will impair the efficiency of administrative procedures.

We also know that the efficiency of practical undertakings III conditioned in part upon factors in the environments in which they are conducted, although we may not know precisely what those factors are or the precise way in which they inflyence the institutions by which practical affairs are incursacied. We know, finally, that if we endeave to achieve inconsistent ends by a single mount, its efficiency will be less than if it were contrived with a single end in view. We can thus account for some of the inefficiency ill crissival justice in iccums of the many inconsistant ends which we attend to attain by the administration ill the criminal law, in terms of the nature of the processes by which we try to achieve them, in terms of the characteristics of the institutions by which these precesses are executed, sed in terms of such factors ill he social background as popular activates toward the auforcament of the criminal law and the pressure exerted by political and criminal organizations upon the personnel of criminal justice.

This common sense knowledge of the etiology of administrative afficiency in at course, incomplete both in its range and in its datail. Research needs to be done to susplament it and to increase our knowledge of the conditions of administrative afficiency. Especially do we need knowledge of the factors which condition the efficiency of the more complicated processes of criminal justice, both those factors which are intrinsic in, and those which are extrinsic to, the administrative system. We need to know more precisely and completely both those characteristics of a process and of the institutions by which it is executed and three factors in the environment in which the system functions. which condition the efficiency of the more complex processes of criminal factice, and the relationship of the factors of such 190e (after se and to factors of other types. It is nevertheless important to observe that the country sense knowledge which we now possess of the factors upon which administrative efficiency depends, enables us to interpret knowledge which is descriptive of the processes and institutions of criminal justice and of the conditions under which the criminal law is enforced, and thus to form common sense conclusions regarding the causes of the inefficiency of the administration of the cristeal law."

Wifely is in striking content to the numbers in which common more look itself when in terms of numbers green immediates at attempts to interpret date relating to

In the second place, we must point out that knowledge achieved by research in this field, in contrast to common sense knowledge, does not number may of the questions about the efficiency of criminal justice.

The knowledge which has been obtained by research is of three kinds: first, knowledge of the constant of the administrative code; second, non-quantistative descriptive knowledge which answers questions about the characteristics of the processes and institutions of eximinal justice; sud, third, quantitative descriptive knowledge. This body of knowledge answers quantions of such tross as the following:

- 1. What are the provisions of the administrative code and how have they been indicially interpreted and construed?
- 2. How were police departments, prosecutors' offices, the courts and other institutions of criminal justice organized and administered at specific times and ill specific places?
- 3. What were the ages, the educational background, the experience, the intelligence and like characteristics of the peritudiar officials who at a gives time and place constituted the personnal of specific isotiunions of orinical justice?
- 4. What was the material equipment with which a specific institution was provided at a given time and place, and what were its characteristics?
- II In what masser were specific institutions discharging their functions and in what masser were individual officials performing their duties at given times and places?
- d. Questions as to ratios such as (a) the ratio between the number of eximes are of specific crimes known to, and the number of all surrests are of surrests for specific crimes made by, the police of a given jurisdiction in a given period; (b) the ratio between the number of arrests and the number of convictions in a given jurisdiction to a given period; (c) the

ratio between armsis for fishesten and commitments by the magistrates in a given jurisdiction in a given period; (d) the ratio between the number of screens or the number of commitments and the number of socializations in a given jurisdiction in a given period; and (e) the ratio between the number of cases tried by the court with a jury in a given jurisdiction in a given period and the number of convictions obtained in those cases.

- 7. How many persons were arrested for follows in a given jurisdiction in a given period; how many or what proportion of those cases were disposed of or eliminated by the relams by the police of the persons arrested, how many or what proportion of these were disposed of or eliminated in the pre-limitary hearing and in such of the succeeding stages of their prosecution, and in what manner?
- 8. Questions as to ratios of the kinds mentioned in the two preceding questions, but saked with respect to different classes of cases, such as earns classified according to the sex or other characteristics of the acrossed persons or of the counsel by whom they were represented, or according to the kinds of crimes with which they were charged, or according to the gaographic distribution of the cases.
- If Questions as to such ratios, but eaked with respect to cases classified according to the nature III the trial or other process which was employed in their procedution.
- 10. Questions as to the celerity with which specific pro-
- Questions as to the relative colority with which alternative processes or varieties of the same process were executed at given times in given invisitietions.
- Questions so to the financial cost of executing specific processes or of maintaining specific institutions in given jurisdictions in given periods.
- Questions us to the physical or mental health of specific convicts in specific prisons in given jurisdictions in given

periods, or an to the value of the products of their labor, or an to the number of them who encaped, and m on.

 Questions as to the opinions of operate afficials with regard to the efficiency with which specific processes are exsented.

All of the knowledge resulting from the attempts that have been made to answer these and similar types of questions is descriptive; some of it is quantitative. Hone of these questions formulates an etiological problem and, as we have said, the only knowledge that we have of the causes of inefficiency in the administration of the criminal law is our common sense knowledge of the causes of inefficiency in the conduct of practical affairs. We have no such knowledge as the result of resourches which have sought to accertain the causes of the inefficiency of criminal instice.

Knowledge of the content of the administrative code ill not ampirical knowledge and it is not obtained by empirical investigations. It is knowledge of the provisions ill the administrative code as they have been indicially construed, and it is obtained by a study of statutes and judicial opinious. Such studies are conducted by the traditional techniques of the lawyer and they do not differ from sindles of other bodies of law. 30 We shall say no more about them except that, in view of the importance of knowledge of the contest of the administrative code both to one who would understand the nature of the processes and institutions of criminal justice as they actually exist and to one who would alter them in an effort to increase the efficiency of criminal justice, further study of the administrative code should be pursued. Few, if any, studies of the code as a whole and of the relations of its various parts and provisions to one another have been completed. We do not healtate to say that measured by the standards of scholarship established by foreign jurists in their studies

OFer examples of such similar are Willoughly, Principles of justical administration. Washington: The Brookings Institutions, 1999, and the Conventional Code of Criminal Processing argument by The Assurance Law Institution.

of foreign administrative codes, studies of American administrative codes have been fundaments.

The methods which have been coupleyed in empirical investigations in criminal justice have been the method of direct observation, the case history method, the crames method, the administrative experiment, and the questions with whall describe them briefly.

A. The Method of Direct Observation.

This is the method by which research which results in nonquantitative descriptive knowledge of the processes and institutions of criminal justice is usually accomplished. The results of the investigator's observations are reported in the form of narratives and characterizations. These describe either the characteristics of the structure, the personnel or the material equipment of the institutions of criminal instice, or the manner in which these institutions are discharging their functions and the ways in which officials are exercising their powers and discretion and performing their duties, or come aspect of the cocial milion. In the absence of an adequate analysis of the eccential elements of a social institution and of the environment in which it functions. investigators observe and describe whatever their common sense talls them is important. The investigators usually interpret, also in terms of common sense, the descriptive knowledge which they obtain, and draw conclusions remedian the efficiency of the procome or the institutions or the officials whom they have observed.

As Moley says, this method in to some degree the method of the strint; ²¹. As he also says, the validity of the data obtained by observations of this character degreeds upon the competence, the experience and the integrity of the observers. The chief value of this method is fin expectly for comprehensive description. However, the descriptive reports emmed be compiled because of a lack of precise definition of what is observed.

FiReport to Columbia Criminalogical Survey, Minuscript, 1886, p. 234.

M.O., etc., p. 236.

B. The Case History Method.

Very few atudies have employed this method. It has been used to obtain data with regard to those characteristics of officials which the investigator believes to be relevant to the question of their competence to perform their official dation. At least not investigator has employed this method, not in a study of officially but in a study of officially but in a study of officially what manner the process of buil should be executed.³⁵

C. The Consus Mathed.

There are two varieties of this method, the tabulative or anumerative method and the construction of what are known as moretality tables or attained. In both forms it results to quantitative, as opposed to non-quantitative, descriptive knowledge. The reports of such research are assetly embodied in tables of one sort or another, and not in nervestive or characterizations. Urually research by either form of the ceasus method is concerned with the processes or varieties of the processes of such mensions are found in official records of one aget or anothers, but most frequently in the records of police departments, of the courts and of north and correctioned institutions.

Of the two forms which the census mathod takes, the method of commercion and tabulation is the more simple. The investigator is interested in one or more of the phenomena of criminal justice, such as the volume or geographic distribution of crime or of specific crimes, the number of arrests or prosecutions for all crimes or for specific crimes, the number of tearwickions or acquirtals for all crimes are fer specific crimes, the number of crack counts and their claims.

[&]quot;Beeling. The half system in Charino Change: The University of Chirago Press, 1922.

"Filts use of the word statistics sumt to distinguished from our matter use of the word at the discounts of creamingual research, to drough the application of special techniques of calculations and enforces to date. Here the word is synapsymous with tabulation. Periasa a matte distinctic transf. for the latter would be 'tables of elementicar'.

"An Wolve were, it is number a industriate of semantics. (id. ed. a, 25).

acter, the age, sex, nationality and like characteristics of convicts, and so on. He goes to police, judicial, penal or other official records and conductate number of instances which he finds recorded of each of the phenomena which he is investigating and tabulates the totals. It is by this method that officials, such as chiefs of police, prosecutors, attenneys general and judicial consile prepare their samual reports, and these reports, which must be regarded an accordary sources, are often the source of the data cased in research conducted by the method of summeration and tabulation.

The construction of a moviality table is a more complex form of the ceasus method. Moley has described it as the method of the ceasus and the developing statistical compilations of thath and the drawing of conclusions therefrom. "The process", he says, "he very simple from the winadpoint of statistical compilations in preparing a schedule card with provision for appropriate and significant date concerning as individual curse. However, and appropriate and significant date concerning as individual curse. However, and the sum of amaphings is nedepted and the court records are searched for the facts concerning the progress of such individual curse. These facts are merely procedural ones, such as the data of the relationship, the charge, the date of the preliminary hearing, the result, str. No aftertion is paid to the metecial facts of the runs, and very little record is made of the concentral personal facts concerning the accused exceeds, perhaps, eec, coles and aga. "**

The construction of a mortality table differs from the method of amountation and inhulation in only three respects. In the first place, a mortality table in not merely a tabulation of the data to be found in official reports or records. Recognizing the doubtful accuracy and religibility of such records, acone invest-

MOS ed . p. 237.

Fig. 18, No. 50. 202. 202. Modely shouthern as more detail the various of susplies that he provides on supplies that he was the case of the case of the public shouthern completed on computed from the case. The case of The other worth case (the surveys) have been computed to sumple their registered and the sampling has warred from place to place. No very sensors supersistent layer states in this connection but a review of tiege stands favore over until the feeling that temperature and merlations are during manufactority except somegapers of the various studies. For example, New York may be commond, with Clampie has it is dargetous to compare casingle, New York may be commond, with Clampie has it in dargetous to compare the layer.

HOA NA DE 28 2 25

gators have been unwilling to rely upon them, and have gone for their data to original sources, such as the files of the courts, upon which these records are based. In the sext place, a mortality table purports to be a history of specific cases and not merely a tabulation of the number of arrests or convictions or surpirities or similar results of administrative processes. The more comprehensive mortality tables record either all the arrests or all the arrests for felonism or for misdemeasors in a given jurisdiction in a given period, or some sampling of them, and follow these very cases through the administrative processes. The construction of a mortality table is thus as attempt to study and describe the enforcement of the criminal law at a given time and place as a series of integrated processes.

In the third place, mortality tables constitute a detailed description of the subsidiary processes which ester into the process of prosecution. They do not merely tabulate such impro procedural events as arrests, convictions and acquittals; they show in detail the various processes by which the cause whose procedural history they record, were disposed of, and the number of cases disposed of by each process. The scortality inhies enumerate, for example, the various steps in the process of prosecution, namely, the preliminary hearing, the accusation by indictinent or information," the trial, and the appeal; and they record the number of cases disposed of in each stage of prosecution and the various subsidiary processes by which they were disposed of.

The first mortality table was that constructed in the course of a survey by the Cleveland Foundation of the udministration of the criminal law in Correland, "a which was the first III a number of surveys which have been made of criminal justice in various

Whetene has charcinal the propose of a manufally table as follows. The response is that age that stated as a make a way in the gare, a petitive of the transless pose in the state of the transless of spaces which full surey or die, m to make, it the various stages of the proceedings and trails, and thereby strows manufalling that the various organs of the indecemberations for the dispositions of cases an artisally make. See Manufall Communication, Report on spracections, in 3.4.

⁴⁰The rathric actually ased at the milits in Grand Juny 41The Cloveland Foundation, Cremed pattern in Cloveland, 1962. (Heroinsite: referred to an Community)

American states and cities." The mortality table has thus become largely identified with the crime survey." The crime surveys constitute the first attempts to study and describe the administration of the criminal law me a whole, that is, as a series is integrated processes conducted by a number of related institutions, and it is in this that their importance chiefly lies.44 The investigators who have conducted the more comprehensive crime surrers have amployed not only the consus method, but also the method of direct observation, the case history method, the questionnairs method, and ever the method of the administrative experiment. The reports of the crime surveys cautain a great deal of informstion regarding the administration of the criminal law and the institutions of criminal funtice in the various states and cities in which they have been conducted. All of it is descriptive; some of it is quantitative and some of it is non-quantitative. The quantitative is to a considerable extent mingled with the non-quanti-

40 For a listnery of the symme surveys and a smeet our many mystope, and listnery of the symme curveys and a smeet of 150 C. P. E. Res sight human Commensors. Report of Gation for Creating Logaries. The Michaelm curves servey. 1961. Historia Association for Creating Logaries. The Michaelm create servey. 1962. Instructs of Law of Johns Hoppins Lowerparty, Roll. No. 3, Study of the predicted system of law light, Weight Michaelm Commensor of Hoppins. The Michaelm Commensor of Hoppins and Study of Hoppins and Commensor of Hoppins and Hop

"Where to the sarveys in a stimular hall beet used: to saidy the idinizativetong of the ctrumpal hay anywhere as a wider. Indicat, gover to that true the only historia socials of any of the saidiffutions of erament, justice soid of their himcharing were those made of policy departments by the Bureyou of Managash Zenarch, now the Lackton of Palick Administration. That does not conven, that these mutrations had not previously been described and department, and the previously been described and except and department, and the product of the said of the product of the said of the

"When reparts connectations and descriptions of dieses methods sense may be taken to mean that two or more of them are not often completed on the source investigation. As in the case of the mechanis by which remarks an oriminality in conducted, comprised studies as oriented, lumine are often conducted by they do note motion.

tative. Together they are effered as a description of criminal justice in a given jurisdiction. It is important, therefore, to recognise that the quantitative information gathered by the crime surveys must be considered with as against the background of the non-quantitative information, if it is to be understood and interpreted.

D. The Method of the Administration Reperiment.

This method has been rurely employed. It requires the cooperation of administrative officials. It consists in varying with their consent some institution or process of criminal justice and of attempting to study the effects of the change. Parhaps the best example of an experiment of this kind is that which was conducted by the Chicago Crime Commission with the cooperation of the State's Attorney in Chicago. The Commission, which had been studying the bail process and which had become convinced. that it was being inefficiently executed, was permitted to install a hall bond burners in the State's Attornes's office and to photore its marution. The difficulty with such attempts at experimentstion is that of constructing a restricted field of variables. In order to study the efficiency of elternative processes or of different varieties of the same process, all relevant factors must be hald constant other than those which are being investigated. For exsupple, no conclusion can be drawn regarding the relative efficiency of two varieties of the hell process, unless we know that the institutions by which they are being executed and the relevant factors in the environmental background of the justitutions are the same

S. The Questionswire Method.

This method is employed for two purposes: either to obtain acon-quantitative or quantitative data of the cases sorts as those which are obtained by the method of direct observation and the census method, or to obtain the opinions of officials or other persons who have had the opportunity to observe the functioning of the instituțions and the secretion of the rections of criminal justice, regarding the relative efficiency of alternative processes or different varieties of the same process, or regarding the comparative efficiency with which the sums process or the same variety of a process in executed at different times or places." The questionswire is often used in a single study for both pur-DOMES, ST

The criteria by which we shall evaluate the findings of research in criminal justice are the same as those by which we evaluated the findings of ressurch in criminology, that is, their validity and their significance. The validity of the findings of required depends upon their acrovery and their reliability. Their significance is determined by the conclusions which can be drawn from them, that is, by the questions which the findings enable us to answer. If the empirical studies in crimine? justice answer the questions by which they were directed, a further estimate of their algulfunce can be made to terms of the significance of thrac questions. In the next chapter we shall consider the practical importance, as opposed to the theoretical aignificance, of the knowledge witch has been obtained by research to criminal justive. As we shall see, it may possess a smetical utility which II prouter than at theoretical significance.

"See, for example, Mirror, A servey of the grand party system (1921) 10 Oce L. Rev. 101, 217, 385.

[&]quot;APT in goarconserve is a smanful method of meaningment. Usually a comparalively small properture of the questionnesses are necessared. To order to makes that
they will be theoretically and panalelecture propertures of the personal to whom they
are bent, the questionn must be forwarded in such strong as to permit of very stable
there are not as "yes" and "for "The deficiently here: a that problems are eveninspirled and the showers are not proven with the reconcary qualitations. Each of the
For example, in response to indirecting questions "or" may refusite a develodly regultive reaction or it may robust a satisfaction to the question. Moreover,
and restricted such as these probabilities of fashine to follow instructions requirang the remarks at which the questions are to be assured, or for first reasons to according to the satisfaction of the winds developed in advanced to a pro
solution of creamal justice at that produces on the question according to nomeno of creamal justice at that provides the winds developed in advanced to common defined by the personament. The whole of a some investigation is the requirities and of the personament of

In the following section we shall survey typical empirical studies of the establishmation of the criminal how, grouping them by the types of questions which their flatlings will answer. It must be understood that the resourches which we shall summarise constitute only a small part of all the resourches which have been completed in this field. Our purpose is samely to give an exemplary sampling of them in order to indicate the character of empirical work in evindant factive and of the knowledge which it has visibled.

Section 2. A Pervey of Empirical Studies of the Administration of the Criminal Law.

- I. How were folder departments, the oppicies of the enterty, the coroner and the procedure, the course, parche and production departments, parch are correctional institutions, and the other other actual institutions of comments the other actual departments at mentific times are placed.
- II. WHAT WERS THE AREA, THE PROCATORAL GARGEDUNG, THE EXPERIENCE, THE INTELLEGENCE, THE POLITICAL CONNECTIONS AND APPLICATIONS, AND RIMITABLE CHARACTERISTICS OF THE PARTICULAR OFFICIALS, SIGHT AND RIMITABLE CHARACTERISTICS OF THE PARTICULAR OFFICIALS, SIGH POLICIALS, AND ROBATION AND PARGUE OPPICERS, PAIRON GUALDS AND WARDERS, WERD AT A GAVEN THAN AND TALO CONSTITUTED THE PROCESSING, WERD AT A GAVEN THAN AND TALO CONSTITUTED THE PROCESSING OF THE STREET THAN AND TALO CONSTITUTED.
- III. What was the manifelal equipment when which a excipic institution was provided at a cipic there and place, and what were its characterisms.
- IV, In what marked were opening industributed descriptions of their purceions and in what marked while industributed gryschar properties are propertied.

⁴⁸ By 'administration or the connection we seem the mineral administration or management of the institution.

The engineers to quantities such as them consist chiefly of ponquantitative descriptive knowledge obtained by the method of direct observation. It is almost as voluntinous as the non-quantitative descriptive knowledge which we have about criminals, their characteristics and environments. It forms a vest body of literature." We cannot manuarise this knowledge within the limits of this book, and it is unnecessary to do so. For our purposes it is sufficient to indicate its general character, of which the types of questions which it will assesser are some indication. In addition to stating these questions, it will be enough briefly to describe a few of the studies which have been conducted by the method of direct cheervation."

(a) Bruce Smith, sesisted by a staff, made a study of the Chicago Police Department.30 He first describes the structure of the department. At the time of the investigation it had a strength somewhat in excess of 6,500 men. There were no less than 18 separate effices, bureaus and divisions or suctions owing direct administrative responsibility to the police commissioner. whose office was more then a mile over from police headquarters." in which most of these pasts were located. Intimately related

6 The reaction who is increased as innovang how wast a us, may ruby to Kulduna, A guide to general an ortime and crumenal justices. New York: This II. W. William Co., 1953. The continue whothergraphy of asserted electron in the attemption of the cruminal face which is by an essure consplere, but which has heardwale of tables, in particularly, floctions Oct. Three: Feve, this and Serven: The reader out allow the property of the continue of the New York, 1928.

³¹The Crizena' Police Committee, Chicago patien problems. Carago: The University of Cricago Préms, 1982. Thus as one of the very but of the status expected by the method of direct discovation.

functions were distributed among a miniber ill these units, preventing systematic planning and consuminal use of man-power. The police commissioner's day was largely devoted to conferences with political victions, with the result that there was little time left for the business of the Department. He was appointed by the mayer, with the advice and consent of the city conecil. The Department was acciously divided by internal fealousies and conflicts, which made it stifficult to find a police officer pomenting the requisite importantity to consummed; and yet the commissioner was usually chosen from the rank and file of the Department. In 70 years the Pepartment had bed 31 administrators. Twenty-four of them served for only one or two years. The commissioner was unable to carries final sutherity in his control over his subordinate.

In similar detail, the masses in which the personnal of the Dapartment was managed, the manner ill which the uniformed patrol was employed and criminal larvestigations were conducted, the crime prevention artivities, the records of the Department, the management of illi property and equipment, and its scales of comparantion and provisions for the welfare of the mumbers of the force, are all described and criticised.

It was discovered that the Civil Service Commission had failed to exact high standards for appairament and promotion and to support the police commissioner. Il disciplinary cases. At the time of the investigation one of the commissioners was under indictment for seiling presections in the Department. The Commission was found to be quite as whereable as the police commissioner to political and other selfish influences. Analysis of the previous occupations of candidates for the force showed that chantlenes, street are conductors and molecules and relieved laborers comprised about half of the tend. Applicants were rarely rejected as a result of an investigation of their character. A review III the various tents applied by the Civil Service Commission in grading candidates for promotion disclosed that they consisted of a series of efficiency ratings which had lapsed, written examination of police detics which sid not test efficiency, written examination of police detics which sid not test efficiency.

a sentority role which favored sentility, and an arbitrary preference for vetrams which curried heavy weight. The training school for recruits expended little or no effort to secure an intellgent understanding of the subject under discussion.

Of the total permanted of the Department there were but 750 patrolimen arabiable for uniformed foot patrol duty on an average 24-hour day. The city was divided into 41 police districts, each under the command of a police captain who was easily accountly in the command of a police captain who was easily accountly in the control in the patrol-wages service suffered from neglect both as to equipment and as to organization.

At the time of the survey the detective division was made up of nearly a thousand individuals, many of whom owed their andgaments to political influence. Systematic instruction for the detectives was complemental lacking.

While the Department and a good system of records, they were not well kept. An amaning percentage of offence known to have been commented and to have been reported to the police were found to have been suppressed, and reported to the criminal records bureau only when the offenders had been appraisented and the offences cleared up. The investigators reached the conclusion that the captains adopted that policy in order to keep the record of crime in their district as low as possible.

(b) Moley observed the Chicago Municipal Court during the course of the Chicago eriase survey and his observations are not forth in the survey report. The court-rooms were found to be small, bodly restrikted, crowled and notay. The class were heard smid great confusion. The accused were not separated from the spectators, and political finers and professional bonds: snew were conspicuous in the court-room. The judge was accessible in anyons who wished to speak to him during the course of the proceedings. The pronounting attorney savigated to the court to represent the State was unfamiliar with the cases, which he presented in a very perfunctory way. Instead, the questioning

PThe Rivery come marry, pp. 363-409.

of witnesses was assually conducted by the police rather than by the prosecutor.

Moley's study in only one of a number of anch studies executed by the Chicago crime survey. The report of the survey describes in great detail such matters as the organisation and administration of the presentest offices throughout the State, rural police practices, the organisation, administration and functioning of the Chicago Police Depurtment, the coroner's office, and the probation and paralle systems.

Similar descriptive knowledge obtained by direct observation is to be found in the reports of the other crime surveys.

(c) Schults and Morgan conducted a study of the offices of coroner and medical examiner for the National Research Council." They selected a number of the larger ritina, placed the study of the opposer's office in each city in charge of a local medical and a local investigator, and gave the local investigators cut lines of the information which they chaired. Their report first describes the binory of the coroner's office and the duties of the coroner, medical and judicial, and summarizes prior surveys of the coroner system in New York, Claveland, and Missouri. They then recapitalists the reports of their local investigators on the coroner's office in New Orleans, San Francisco, and Chicago. They compare the findings of these studies with those of studies of the offices of the medical examiner in Boston and New York City."

Their report describes the organisation, the personnel and the physical inclinates of the particular coroners and medical examiners' offices which were studied. Thus, is Chicago it was observed that the office of customer was elective, that II was sought after by those with political aspirations because III permitted the building up of a personal political following, and that there were no professional requirements for the office.

^{**}Bhalletra of the Raptimal Research Council Mo 50 The obvious and the medical commer Washington The Hutuwall Research Council of the National Academy of Semanca, 1928

^{**}Not the least observations feature of this study is an admit to compare motherious by direct observations.

Neither the curveer in effice at the time of the investigation nor his predecessors had had medical or legal training.

1919 there were attached to the coroner's office five pathalogists and a competent chemist. A well contoned morene was available for a portion of the coreser's merconsics. At the time of the investigation it was discovered that the men selected for the medical positions had had no previous training or experience in autopey work. Of the physicians attached to the coroner's office, two were specialists in internal medicine, one in surgery. one in gynecology, and one is medico-legal work and toxicology. The non-technical staff was of no higher grade of ability. In very important cases it was usually possible to ascure a fairly high grade jury, but in all other instances the jury was picked by a policeman, a deputy coreser, or an undertaker from the immediate neighborhood in which the inquest was to | hald. In some instances passaployed men mode it a practice III follow the deputy coroner from place to place as as to be on hand when a jury was picked.

In 1826, the year in which the effice was invertigated, no complete autopsy was made, that is, nose in which the findings at the section table were verified by further histological and basteriological examinations. Even in murder cases there was a tendency to abbreviate the autopsy. In many cases in which organs and classes were brought to the chamical laboratory for examination, they were wrapped up like so such berfatesk or in nuscaled containers. The chamical quantitations were briefly and inadequately conducted. No use on the staff was tumpetent to make histological examinations.

The relation between the coroner and undertakers was close.

The reports of the corener's physicians were found to be inadequate, the average report being less than one page 72 length. They were of small value as legal documents and almost worthless as scientific documents. The covener was apparently averse to post-mortem examinations, probably because of political support and catapatga contributions received by him from undertakers who brought influence in hear upon him at the request of relatives to prevent the performance of narrounies.

The offices of medical enuminers in Boston and New York City were described in a similar masser, and it was concluded that in every respect the medical examiner system is superior to the coroner system.

We shall now curvey typical examples of the research in criminal justice which has resulted in quantitative findings.

- V. What was the basic detwent the number of calme of of prospec creams region to the policy and the number of all arbites or of alrests for december comes made by the policy of a stress publishment on a super person.
- VI. What was the eatho between the number of albeing or of the arebect for specific celling and the besteare of all contications due of convictions for specific cellings in a given juriadaction in a stren findor.
- VII. WHAT WAS THE BATTO DETWING THE RUNGES OF ARRIVE FOR PERONISS AND THE RUMBER OF COMMUNICATE BY THE MAGIS-TRATES IN A STREE JURISLICTION IN A GIVEN PERSON.
- VIII. What was the batts determined the kurber of arbest for yellowing of the humber of community by the magniteaths and the humber of insocrations in a speak Justiciouson by a stree person.
- IX. What was the based dirwided the bubbles of cash thill and the bubbles of organization in a given jurishering of a given ferior.

These questions are typical of those which are nonwared by the findings of research conducted by the enumerative or tabulative form of the comma method. Studies of this type are succedingly numerous. It will be sufficient to indicate the general character of their findings by referring to a few of them.

- (a) The New York Crime Consultation has estimated that only 15% of the criminals in the State of New York are apprehended by the police. "Labeley has estimated that less than 20% of the persons who commit crimes in Chicago are arrested by the police." This estimate was based upon a comparison of the number of complaints of robbertes and burgiaries made to the police in a cartain period and the number of prosecutions for those crimes begun in that period. Only 6% of the cases in which complaints were made resulted in the numbers of offenders.
- (b) It was found by the Missouri crime curvey that only 384 warrants of arrest were issued to the case of 13,444 februles known to have been committed in Missouri in a cortain period; and that only 374 cases resulted if the paulishment of the priminals.
- (c) It was found in the Missouri crime survey that of those committing major erimes to Missouri, such as housicide, burglary, robbary and assealt, not one out of ten is apprehended and musished; that not over 26% of those arrested and prosecuted are convicted and adequately pusished; and that less thun 56% of those pieces on trial before a jury are convicted and adequately musished.
- (d) The report of the Chicago police commissioner for 1830 shows that of 15,384 persons who were prosecuted for crimes charged by the police, 6,757 were found guilty of the offense tharped and 1,385 of a leaser afficient.²⁰
- X. Of the total number of present, deadlines ut eex, ab-

^{*}Report of the Crime Comming, 1989, p. 125

⁵⁴A V. Labiey, The Blanc cross savey J Cross Law and Criminal , 1980, 22, 581-665

⁸⁷M attourn crieat servey, p. 503

^{*}Kunceri crime person, p. 349.

^{*}Chicago Poisco Department, Assemi Report, 1939, p. 28.

WEAT PROPOSITIONS WERE CONVENIES AND IN WHAT MISTRONS WIRE THE CARRE ELIMINATED IN WHICH CONTRIBUTE WORK NOT OB-TAINED.

Wood made such a study of the arrests in Detroit for the period BB3-18B. Of the males 54% were convicted of some offenses as the result of pleas of guilty or of trials, and of the females, 52.2%.

XI. OF THE TOTAL NUMBER OF CASES SETTING THE TRIAL STADE, OTLESSTED AS (A) PELONISE AND SHOWMARKSON, (A) PELONISE AND SHOWNAKNON, (A) PELONISE CASES, WHAT PROPOSITION OF BACK CLASS RESULTED IN CONVICTIONS, BY WHAT PEROPOSITIONS WERE THE ADMINISTRATION OF ANY WHAT PEROPOSITIONS WERE DEFENDED OF 27 MACH SHEPTON.

Such a study was made by the Virginia crime currey."

XII. HOW MAKE PERSONS WARE ARRESTED FOR PERSONS IN A GIVEN TURISDICTION OF JURISDICTION OF A GIVEN TRAE; NOW MAKE OUT WITH TURISDICTION OF THIRE CASE WERE SUCCESSOR A GUIRDER OF CHILDYNAMO BY THE PERSONS AUDITORS OF THE PERSONS AND IN WART THE PERSONS OF THE PROSECUTION, AND IN WART MAKENES.

XIII HOW MART PERRONS WERE ARRESTED FOR MISSERIEANDER IN A GIVAN JULISBOOTON OF PURSBOUTSONS IN A OVER YEAR OA YEAR JOW MAY AND WHAP PROPRESSION OF TRIBES CARRES WEED DEPOKED OF ON EINMATED BY THE RELEASE BY THE FYAUGE OF THE PRESIONS ABSENTING AND NOW MARY AND WHAT PROPRESSING OF THEIR CARRES WILLIAM DEPOKED OF OR SCHMIKATED IN THE COURSE OF THEIR PROPE-COURSE, AND IN WHAT MARKERS.

[&]quot;Arrests in Detroit. J Cram Law and Crammal, 1930, 21, 169-260
61Crammal pattern in Vergoon, in 75-101, where the require of the study are not

forth. The stages on the proposition of spelformation are force an number than those in the proposition of feliums; from m, so a role, so probability ingiting of made-

XIV. HOW MANY AND WHAT PROPERTIES OF THE PERSON CARDS. WEIGH BEAUTID THE PRESENTANT HEALTH OR COME SURESQUENT STAGE OF PRODUCTION WERE PERFORM OF BE SEASINATED IN THAT STAGE AND IN SUMMINIST STAGES, AND IN WHAT MANNER. **

These questions are typical of those which are unswered by mortality tables or statistics. We shall subsequently formulate other questions which they answer, but it must be understood that our enumeration of the questions, snawers to which are to be found in mortality statistics, is not enhancive. It is, as we have said, enough for our purposes to indicate the kind of knowledge which the mortality tables have given us.

In Appendix I we have set forth a few of the more comprehensive mortality tables. By reference to this Appendix it will be observed that, as we have said, the mortality table enumerates the major pre-conviction stems or processes, the first of which is designated the stage of arrest." The succeeding stages, in felony cases, in chronological order are designated as the Freliminary Heaving, the Grand Jucy, the Telal, and the Appeal," The procedure in constructing a mortality table is to record the number of arrests for felonices in a given jurisdiction in a given pariod, and then to ascertain and record what proportion of those cases were eliminated in succeeding stages, and by what methods."

matter charges and the grand pury does not up upon them. Consequently it is morememoric comagns now one grown pays 1000 Aut 400 4000 C. 6000 C. 6000 4000 ft 10 1000 ft

Wit is recovery to 4th this question lecture a number of accordants on the ployed as their base, not the number of accordant but the number of cases which

ployed as their base, not the immber of arresin, but the number of come which reached the perbanancy hannage ar state atthicupent singue of procession.

**His only one sudants por fine as we howe, has the survey loque with the sunther of creates known to the point, as expansed to the samber of arresin. Soc. Baltimare Creates and Justice Commission, Nutab Assemble Report, 1914, apr 9-16 (nairesquippled).

**The sumbour of the single is a trade of fiching come. It makes, we have pointed out, the containty indicate the archarolly with afrong come. If makes, the containty indicate the archarolly with afrong come. It makes the cases proving at the end of the preceding years. It is only of one measure the cases proving a seasoher a fine of the containty indicates the cases proving a seasoher as fined relation to the total samples of cases from a point of the proceeding years. It is only of one measure them you've to year, that these their architectures are desirable in the prographed to be one containty within, that is, as hange considerable to the architecture of the processing consistance of the case of the c

As we have mid, the first of the mostality tables was prepared in the course of the Cleveland crime survey, and although in subscapent apprevs the technique of compiling mortality tables has been developed, the Cleveland table may nevertheless be taken as typical. By reference to Column I of Appendix L. it will be observed that the police of Cleveland made 4,499 arrests for the year 1819. These arrents are treated as constituting all or 100% of the felony cases in Cleveland for that year."

Column 1 above that 12.71% of the persons arrested were discharged by the police, so that only \$7,29 % of the cases reached. the preliminary bearing." 19.74% of the persons arrested were discharged outright by the magistrates," and 1.27% were discharged without promoution." 0.53% of the cases were dismissed. for miscellaneous reasons," and in 1.78% of the cases the charges were reduced to misdemensors." In other words, 12.71% of

mirriality tables prepared by her insurement nevaneous. If such police are prepared over a long sureys of years for the same purpositions and those unless are annicolated, then the prepared over a long surey of years for the same purposition and those unless that the figure was obtained, we a footstate. Moreover, on the Chrosland garver can table type prepared orders of the cases where managed that discopand Court to be stage of the prilinguishing with the cases where managed the discopand Court to be stage of the prilinguishing the cases where managed the cases where the case where the case where the case where the case of the cases of the cases of the same to the same the cases where the same the same the same the cases where the same t

contague. However, as some of the enverye die base was the member of mass entering such stage and the elementaries or each stage were serial in terms of percentages of

such stage and the demandment or each stage were desired in forms of percentages of the affactor of cases entering that stage.

The preference cases entering the stage,

The preference of the purpose of determining whether or not there is reasonable
placing other or the purpose of determining whether or not there is reasonable
placing the control of the presence of the companies of the preference of the preference

If the reagentyte finds that there we be companie the worsen's upper or whose hours at
the predictions attention of the general surper or the share of an observation against him
by the presenting attention, according to the precedence which behaves in the particularly
retrieved in the present of the present surpers of the preference having the confidence of the present of the pre

[&]quot;Presumably became the aggreeved persons failed to against and pross the changes or became of a lack of watersoon by whom the changes could be substanted or for similar relations the magnification discussional discuss persons without barrings any exdence

[&]quot;Such as the death or secondly of the account or the proofer of their case to a other court, e.g. the just and an author the felow charges.

the cases having been aliminated by the police, an additional 22.81% were climitated in the stage of the preliminary hearing.

Only \$4,48% of the cases extered the grand pary singe, where 13.89% of them were eliminated by the grand jury's fellure to reture indictments."

The result was that only 50,50% of the total number of cases entered the trial stage. There, 18.91% of these were dismissed by the prosecutor," 3% by the court," and 31% without prosecution." 2.96% of the cases were dismissed because of the death. of the accused or for other remuns, and in 1.79% the accusal failed to appear for trial and their bail was forfelted. 454% of the cases resulted in an arquittal by the jury, so that an additional 20.91% of the cases were eliminated in the trial stage."

In 10.58% of the cases the accused pleaded guilty to the crime with which they were charmed, and III 4 25% of the cases, to lesser offences.160 In 5.84% of the cases the accused were convicted by the jury of the offences with which they were charged and in 1.48%, of lower offence." Then, only 31.18% of the total numher of arrents resulted in convictions either of the offenses with which the accused were charged or of longs officeses."

THE the grand pury finds to suder at returns when as called a 'No Bell', that is, it may in affect that there is no bell of subcament, but if the grand pury finds that there is reasonable ground for believing the accessed to be grally of the crume with which is at a transposable ground as 'Trum Bell', there is, or may at effect that the bell of

Wilding by a stranger, it remember 2 improvement to age of the constraint approval of the dumained. He has so table a statement to duranteed, before the dumained. He has so table a statement to duranteed, evening forth the greatest for that the age of the constraint of the dumained. He has so table a statement to duranteed, perfamining posterior by the duranteed of the constraint of the constraint performance of the constraint of the duranteed of the duranteed of the constraint of the duranteed of the duranteed

Course, in the spaces.

11 Presimably because the judge was of the quanta that the law or the evidents was not no rot to warried his privating the case to the judy.

12 Presimably because the aggreered person finied to prove the charges, or bettee

TFPresumably because the aggreeous persons as witnesses but distinguished. Witnesses but distinguished, we witnesses but distinguished to of the cases elemented by the jury should be noted.

Where we assume reason to betwee that an among classes a plant of guilty to a leaser of the control of the present of the present

ing. Mother studies have alread both larger and applies proportions of courietons.

XV. HOW MANY OR WHAT PROPRETEDS OF TIDE TOTAL NUMBER OF CONTICTIONS APPEALED FROM IN A GIVEN JUBILITY OF THE ASSESSMENT OF THE PRINTS DESIGNATED IN APPERELANCIES; HERW MARK OR WHAT PROPOR-TION RESULTED IN EXPENSALS ASD OR WHAT GROUND WHAT THE REPURALLS ARROY; HOW MARK OR WHAT PROPORTION OF THE CASES REPURALLS ARROY; HOW MARK OR WHAT PROPORTION OF THE CASES OR WHAT POSPORTION OF THIS CARRY REMAINS PROPRIED IN COM-VIDENCE.

A number of stadies assure one or more of these questions. Thus, the Illinote wines server showed that in the best year period 1917-1927 approximately 700 criminal cases were before the Suprame Court of that State. Of these, 410 or 59% resulted in affirmances and 283 or 41%, in reversals. The Court affirmed 28% of 33 convictions for operating a confidence game, 43% of 36 convictions for preciving stolen property, and 79% of 27 convictions for robbery. The number of cases of each class reversed and the principal grounds of reversals are set forth in the following table.

The Illinois servey also showed that of 281 cases reversed and remanded for g. new trial, only 18.8% resulted in convictions. 229 of the cases were not tried a eccount time.⁵⁵

Similar studies are those conducted by Veraier and Selig. If and the Missouri crime survey. If

MThe Discus crass servey, 9 116. The same subpression is given for the other separate of craves servebus to these separate. It is deficially to describe what the hypothesis of such information is: The section to be a perfect their than the patterns of a server the section in the content of the section is to be a perfect their than the patterns of the section in the section is to be a perfect their than the section in the section is to be a perfect that the section is the section is to be a perfect that the section is the section is to be a perfect that the section is the s

generous of sampointent same WG_{p} at $p = 10^{-3}$. It is a distinct to deposite the sampointent of such data, or at least enough in warrant into time and with receiving in warrant lost time and with receiving in which below the time and with receiving the sampointent of t

55Op cit, pp 181, 189. They is attributed in large part to the lapse of the respiring disappearance of teleprone and the habitance of the evidence

the resulting disappearance of well-them. But the beliances of the evidence

"The reversal of crummal cases in the Supresse Court of Calcherin, (1948) 2

So Calci L. Rev. 21.

⁶⁷Minscuri cruse mweg, p. ZZZ. See also Hote (1929) 42 Harv L. Rev 566, SO, in 3, and House, Communic on declarate as criminal curus in 1934 (1936) 14 Ky. L. J. 134.

PRINCIPAL GROUNDS FOR REVERSAL OF CASES BY THE SUPPRIME COURT, 1967-1927

	Water of Countraline	Printers Delicants or	Security Reserve	Eritan kega is	Erron et Oras-Emmbrida	Vortener	Contract Contract	Carter of Court	Three is Date of Yorks	Elegiory Incolleges		
Murier	9	- 8	ಎ	2	\$	- 1	- 6	7	4	3	4	
Mandaugher			IJ	7	2	9	3	2	a	2	1	
Assent with latest to commit fillowy		1	ı	2	Q	9		1	9	2	1	
Crima against delli-		0	3	3	1		1	1	4	1	2	
Raps and boart		0	- 3-	6	- 1		4	- 1	- 4	3	- 3	
Duglay		- 1		&	- 4	- 4	- 4	3	- 0	7	1	
Robbery corners		1	2		1	2	3	- 4	- 4	1	Ď	
Robustanett	. 9	B.	2			- 6	8	- 4	1	1	- 1	
Large		8		6	- 1	2	4	5	1	10	2	
Receiving states			4	4	1	2	2	2	a	1	2	
Cathings game,	a		4	6	1	4	2	ι	0	10	1	
FORMY		- 10		4	1	4		1	0	4	0	
Perjusy		- 8	1			8			0	1	- 1	
Contempt of exert	4		- 0		- 0			- 1		- 4	7	
Complete			- 1	1	0	1	- 6			1	1	
Violation of liquie		12	3	4	D	1		2	2	7	6	
Kindana	7	3	4	6		3	3	4		28	4	
Total	ш	m.	W1.	=	3	16	24	25	4	8	17	894
Per Cast	2.5	4.6	206	29.3	5.1	4.2	6.1	8.8	1.8		9.4	190.

EVI. OF THE PORTAL NUMBER OF CHANGE OF OFFICANT CASES BYTES-THO THE PRESENTATION INSINGS OR STATE STUDIED BYTES-TROSHOUTHON OF ALL THE CASES, WHAT PROPOSED OF THE CASES BY PROPOSED OF ALL THE CASES, WHAT PROPOSED OF THE CASES BY SELECTED CITINS, AND WHAT PROPOSEDS OF THE CASES BY SELECTED STRAIL DISCRIPT, RESILIZATE IN CONVENIENCE OF THE CASES BY WHAT THE REMARKSHIPS CASES EXPOSED OF, AND WHAT PROPOSEDORS WHEN DISCRIPTION OF BY AND MINERAL

Typical of such studies are those conducted by the New York Crime Commission and he the Virginia crime server. However. the latter is distinguished for the care energied in selecting the years to be investigated and in compling the cases for those years. In other studies of this character the tural and urban districts were differentiated chiefly in terms of the large cities of the state and the remainder of the state. Little effort was made to disfingulah among the selected cities or among the selected rural counties, or to compare the selected rural counties with the remaining rural counties. Moreover, the years to be investigated were selected on the basis of some more or less arbitrary interval. such as five years. In the Virginia ourser, however, the judicial statistics for the whole State were examined and what were regarded as typical years were selected on the basis of that study. The State was then divided into air geographical regions. The counties of the State were classified into large counties, average counties and small counties on the basis of sepulation. An attumot was then made to choose In each area two large, two average and two small countles which and characteristics similar to those of the cutire State. In order to insure a fuir sampling, the population, both white and negro, the per capita cost of education, the value of all farm products per capita, the value of manufactured products, the assessed value of all taxable property, and other characteristics of the counties which constituted the sampling were compared with the other counties in the same area and with the entire State.

MReport of the red-cumulation on statistics. Albumy: The Orino Commission of New York State, 1925, 30 69-77, and Combaid justice on Virginia, 30. N-91, where the results are set forth.

XVII. OF THE TOTAL NUMBER OF CAMES INTERING THE TRIAL STAGE IN A SIVEN JURESPOTERS IN A CHITER THAR, IN WHAT PROPORTION WERE THE ACCORD AND MERCHANISM BY "ET POLITICAL LAWYERS" AND IN WHAT PROPORTION BY OFFICE COUNSEL: WHAT PROPORTION OF BACK OF THESE CLASSES, RESULTED IN CONTECTIONS; MY WHAT METHODS WELL THE MINISTRED CARD OF MACH GLASS IMPOSED OF: AND WHAT PROPORTION OF BACK CLASS WAS DESCRIBE OF BY BACH MITTEROD.

This study was conducted by the Cleveland crime survey." The investigator made a list of the attorneys who appeared most frequently is criminal cases in the year in question and submitted this list to a well-known attorner in Cleveland who, on the bads of his general information, selected the 27 efforcess in question as those who had political ecoccistions and connections which furtified their being classed as political lawyers.

XVIII. THE TOTAL NUMBER OF CAMES EXTERIOR THE TRIAL STATE IN A GIVEN JURISDICATION BY A CITYON PROPOSE, ME WHAT PORPORTION WHEN THE ACCUSES REPRESENTED ST COUNSEL ARRESTED BY THE COURT AND IN WHAT PROPORTION BY COUNTRY, WHICH THEY ED-TAINED: WELL PROPORTION OF EACH OF TRUE STANKS OF CLASS REGULTED IN CONVECTIONS: BY WHAT METROOG WEER THE BRIMAIN-ING CARRS OF EACH CLASS SERVICES OF: AND WEAT PROPRIETION OF TARRE CLAMA WAS DISPOSED OF BY CACH MATERIA.

Typical III such studies in that conducted by the Clavaland orine curvey. **

XIX. Or the highly william of come from an one court with A JUST AND BY THE COURT WITHOUT A JUST OF A SIVEN JURDOIC. THE IN A SIVER THAN, WHAT PROPORTION OF MACH CLASS DESCRIPTION IN CONTROLIDAD AND WHAT PROPORTION IN ACCOUNTALS.

Typical of such studies are them made by the Illinois crime survey's and by the survey of the judicial system of Maryland."

PCleveland crime survey, p. 204, where the results not a PCleveland crime survey, p. 211, where the results are \$111 mois crime survey, p. 40 PStudy of the judicial against of Maryland, pp. 14-15.

Goldberg made a similar study" in which he classified his cases also into those in which the accused ware represented by counsel appointed by the court and those in which they were represented by country whom they retidand. Goldberg found that trial by court without a jury results in a slightly larger proportion of convictions than trial by the court with a jury; that where the accused are represented by commel appointed by the court the proportion of convictions is slightly larger than where they are represented by commet whom they retain; and that, of the cases tried by the court without a jury, a much larger proportion regults in convictions where the accused are represented by nounsel amigned by the court then when they are represented by counsel whom they retain. Goldberg coordeded that assigned counsel do not exert as much effort for their clients as retained commel and that the judges penetrate technicalities betier than juries. He slap concluded that it is possible that those defendants who do not have anongh money to retain counsel are the noviess or the "group most guilty of the offenses charged",

XX. OF THE TOTAL NUMBER OF PERSONS CONVICTED OF PELONISS IN A SYMM YEAR OF A OUTER FURSONITION (A) BY THALL AFFER PLEADING NOT STRIFF, (A) BY PERSON OF SCHAFF AFFER HAVING FERRY PLEADED NOT SUMMY, (C) BY AN INTERAL PLEA OF SUMMY, AND (D) BY A PLEA OF SUMMY TO A LESSUE OFFENDE, WHAT SUCCESSION MA-STATE PROPERTY AND ANY PROPERTY.

Typical of these studies in that conducted by the Missouri orime survey which found that, in selected arbun countes, \$\mathbb{E}_23\%\$, of the defendants who were convicted after a piex of not gullty were scutenced \$\mathbb{E}_1\$ the penticultary; that \$71.17\%\$ of the defendants who pleaded guilty after first inving pleaded not guilty were scutenced to the pesticulary; that \$4.18\%\$ of the defendants who initially pleaded guilty were scutenced to the penticulary; and that \$24.46\%\$ of the defendants who pleaded guilty to a leaser offense than that with which they were charged were scutenced to

^{*}Optional waterer of pany to fedory trials in Reconfer's Court, Detroit, Machine J. Crim. Low and Criminals, 1883, 22, 48-22, nor this Collecty, Schooly trude Michigan courties. J. Crim. Low ind Crossinel, 1883, 22, 56-52.

the penitentiary." Findings of this character are interpreted as indicating beganteing between the defendants and the prosecutors or courts as the result of which the defendants agree to plead guilty and the prosecutous or courts agree that the defendants shall receive lighter mentences."

XXI. WHAT PROPORTION OF THE PERSON AND MINORMEANOR CARDS IN A DIVEN STREETING IN A CEVEN PERSON, CLASSIFIED ACCORDING TO THE LEMSTE OF THER ENGINEERS TO POPOUR OF THURS, RESULTED IN CONFESTIONS, RITHER BY PLEA OF SURLEY OR ST TELAL

Typical of such studies is that conducted by the Virginia Oring Survey." Some of the Sadlage of this study are embodied. in the following table:

_ ,			
Under three months	LANG	3,335	1/2
Parostings, graft artibilitied	30	- 100	08
There to per execting a constant of the consta	390	677	291
Personal gain embodul	22	13	38
The to their seconds	87	147	117
Percentage, graft established.,,,	L7	29	3.5
Over plea months	ME	213	124
Perceptage, golft armbfidad	711	- 16	74

EXIL OF THE TOTAL NUMBER OF PROSECUTIONS INTRICATED BY DI-DESCRIPTION AND OF THE TOTAL MUNICIPAL OF PROSECUTIONS INSTINATED BY DYPORMATION DI CIVINI JURISHINDONI IN CIVINI PERISHA WHAT PROPORTION OF RACE CLASS ASSOCIATED IN THE INTABLIZED IN OF STILT.

Moley has conducted such a study." He sets forth his findings in seven tables which we have consolidated into the following table:00

uri crime sarvey, p. 315. n Chin councilou, Katchelt and Patrona, op cit., p. 414.

ation of primary processing by indictment or extremation

(1921) 29 Mich. L. Rev. 473.

***One percentages art different from History's slace we have considered agreeral of his miles. Moreover, Morky averaged his paramingua for the vaccous jorispications and we have varietized them as a manner of which the followings as an example, an order to accordant to proportion of subsemutous find in a given jornelation in order to accordant the proportion of subsemutous find in a given jornelation in the accordant to the contract of the accordant to the contract of the accordant to the accordan

PROPORTION OF CASES RESULTING IN "SUCCESSIVE." PROSECUTION

	Salerne	4. Zhuara	N-1	Crim-	Large Cities		
	1-6-			Topos mark	Tolo-	Tallet.	
Total Cases	1/5	30,307	321	14,877	1,19	\$2,394	
	jing.	300%	APP 95.	100%	100%	180%	
Plan Gerby	\$1.72	7.5	56 SH	34.17	J# 50	1676	
Plus Guity (lesses offense)	414	549	246	416	4 66	16.82	
Converted	11.29	3440	734	1476	18,72	14.88 ^{to}	

XXIII. WHAT PROPORTION OF THE CARD PRESENTED TO THE GRAND JURIOR IN SIVEN JURISDICTIONS IN A GIVEN PERCO. (HARMYON AS LIGHTOR CARRE AND NON-LIQUOR CARRY THE LIGHTOR AND NON-LIGHTOR CARRE DELIG IN TUEN SUB-CLASSIFIED INTO SPECIFIC CATEGORIES OF CHIMIN, WHEN INVISION BY THE PRODUCTION APPOINTS AND WHAT PROPORTION BY THE STAND JURIES; IN WILST PROPORTION OF BAILE THAN AND STRUCKED HIS THE COARS PROSES SERVICE TRUE STALL AND

**Moday realises as well as anyone both the methodological difficulties which amignifies revolve and the imagnificant character of the dankings in which they result 7 per example, well require to the problem of obviousing a fair simpleng he small; "If the presentation of sarriar sanctus on the follows at we beyond that the whole giventum; For example, with respect to the problem of chromous a fact simpling he and; "The protection of certain scales on the follows in the following of the protection of control of the protection of certain for which general follows a subject to the protection of the pr IN WHAT PROPERTIES NO BELLE; IN WHAT PROPERTIES OF THE CARES IN WRITE THE CRASH STREET METCH THEY RETURNED NO BELLE DID PROPERTING OF THE CAME IN WHICH THEY RETURNED NO BELLE DID THE PROPERCYLLIA ATTRIBUTE RELAGIOUS WHICH THE ACTION OF THE SEARCH STREET.

Morae has attempted to assume these among other questions. To order to obtain what he referred to as "objective data" Movae prepared and want a data cand to 1,337 prosecuting attorbays in \$\mathbb{M}\$ states of whom 160 reported to him. The prosecutors were requested to fill out a card for each case considered by a great jury during the fall and wister terms of 1998-30. The prosecutor was saled to designate on each curl whether or not he would have initiated a prosecution if he had been operating under the information system, the theory being that this would provide a basis for comparing what the prosecutor would have done under the information system with what the grand jury actually did do.

The prosecutors reported a total of 7,414 cases. Among Morse's findings are the following:

- (1) Of the 7,414 cases, 77.97% were non-liquor cases and 29.08% were injust eases; of the non-liquor cases, 57.10% were crimes against property and 24.78% crimes against the person; of the liquor cases "sale" was the most common charge and "postassion"; the second most common.
- (2) Of the 7,814 cases, 352 or 4.26% were intimized by grand juries; of these 503 cases the grand juries failed to indict in 20.46%; of these 203 cases, 5.83% were liquor cases and 6.51% non-liquor cases.
- (3) Of the 7,002 cases initiated by the prosecutors, the grand juries fatled to indict in 16,37%, from which Kores concluded that prosecutors are not more likely to initiate investigations of cases in which indictments should not be returned than are the grand juries.

¹⁰⁰ A survey of the grand Jury system (1531) 10 Occ. L. Ros. 161, 217, 251.

- (4) In 8,119 of the T.SEL cases intlated by prosecutors, the prosecutors recorded what disposition they would have made of the cases had they been operating under the information system. Of the 8,119 cases, 8,176 resulted in indictment and 943 in no indictment. Of the 263 cases initiated by grand juries, in 284 the prosecutors recorded what disposition they would have made of the cases had they been quanting under the information system. Of these 334 cases, 267 resulted III indictment and 67 in no indictment. Of the cases imitiated by the prosecutors which did not recult in indiciments, the prosecutors disagreed with the grand juries in about 20% of the cases, that is, the propeoutors thought that indictments should have been returned. Of the 5,176 cases which did result by indictments, the propertions disagreed with the grand juries in 2.53% of the cases, that is, the prosecutors thought that indictments should not have been returned. Thus, in only 315 cases or 5.16% of the 6.118 cases initiated by prosecutors did the prosecutors distures with the erand fury.
- (5) Of the 67 cases initiated by the grand jury which did not result in indictments, the prosecutors disagreed with the grand jury in 11 94% of the cases. Of the 387 cases initiated by the grand jury which resulted in indictments, the prosecutors disagreed with the grand jury in 9.26%.
- (6) Of a total of \$,452 cases, the presecutors disagreed with the grand jury with respect to only 346 or 5.30%.
- (7) Of the 7,061 cases initiated by presecutors, in only 206 or 2 92% were indictatents returned for different offenses from those for which the necessed were bound over.

Morse attempted to combine what he calle the "quantitative statistical method" with the questionantre method in the hope that the two methods would supplement and check such other. He therefore sent questionantres to 2,884 judges in 48 states and received replies from 545 in 41 states. 30% of those were received from information states and 10% curse from indictanent states. The indexs were taken from the supreme courts, the trial courts and courts of Smithed jurisdiction. On the busis of the "objective data" and the answers to the questionnesive, Mouse reached the following, among other conclusions:

- (1) The personnel of committing magistrates and proceedters should be improved. Often committing magistrates are not learned in the law and many prosecutors are young and inexperienced.
- (3) There appears to be no difference generally between the indictment and the information as regards the thoroughness of the initial investigation of cases in prosecutors.
- (3) The indivineest method casses considerable delay in prosscution with the resultant weakening of the state's position. The information system is decidedly superior to the indivinent method from the standpoint of speed. Here there were \$18 nasware expressing this opinion as against 147 expressing the contrary relation.
- (4) As demonstrated by Moley's material,³⁶² the information method is more efficient than the indictment mothod. This makes may the fact that so the beast of the cases studied, there is a larger proportion of convictions under the information system and more pleas of guilty to the offense changed. To this Morse adds that his arrays showed that a majority of the judges were of the opinion that the information system is the more efficient. As a natter of fact, 202 judges expressed the opinion that there was no difference in the convictions obtained as between information and indictment, while 26 thought that more were obtained by the indictment method and 23 that more were obtained by the indictmention method.
- (5) Grand feries tend to stamp with approval, and often uncritically, the wishes of the promeening attorney. At best, the grand jury tends to duplicate the work of the committing maginrate and prosecutor. Most of the judges in indictment states answering the questionneire were of the opinion that grand juries

rarely return indictments which are not recommended by the prosecutor and rarely refuse indictments recommended by the prosecutor. Grand juries in some jurisdictions consider cases too hastily while, in others, they devote ample time to the cases. 107 judges from indictment states and 50 judges from indormation states were of the opinion that the prosecutor so influences the grand jury that is assuly follows his suggestions without careful consideration, but 114 were of the opposite opinion. 73 were of the opinion that while the grand jury consideration. The transactions is done so only after careful consideration.

- (6) The grand jury cus be an effective instrument for the investigation of political fraud and corruption and serves as a constant warning to public officials that they cannot escape public scratter.
- (7) The information nystem evators upon the prosecutor the responsibility for initiating criminal prosecutions. The indictment method provides him with a scapegout.
- (8) The cumulative effect of the evidence supports the conclusion that, from the steadpoint of efficiency, economy and the fixing of the responsibility, the dual method should be preferred to the indictingent method shone.
- XXIV. WELT WAS THE FINANCIAL COST OF EXHQUITING SPECIFIC PROCESSES OF OF MAINTAINING SPECIFIC INSTITUTIONS IN CITER JURISDICTIONS IN A DEVEN PRISOD.
- (a) Most of the information which we have regarding both the direct and the indirect cost of cruse on the community is conbined in the Report on The Cost of Crime of the National Commission.¹⁴¹ It deals with the cost of the administration of the criminal law by the federal government, the cost of state police forces, the cost of state pound and correctional institutions, and the cost of the administration of the criminal law in American

 $^{^{12}}As$ dot crite has said, the 1 Me represents talk would have been "The Koong Consequences of Green". : π H. F. Taggart, Consequent (1991) 40 Mech. L.

cities.100 The Commission's study is by far the most elaborate that har been made of these mattern. It found that of the institutions of crimical justice, the cost of maintaining the police was the greatest, and that of maintaining penal and correctional institutions was the pert greatest. The costs of maintaining these and other institutions in various states and cities were compared.

(h) Aumann investigated the relative cost of the public defunder system and the system of emigned counsel. 104 In Clevefand, in 1920, assigned counsel handled 528 cases III a cost to the public U \$32,500.00. In Los Angeles, in 1917, the public defender handled 522 criminal cases and several thousand civil cases at a cost of from \$20,000.00 to \$25,000.00. It was estimated that in Columbus the public defender cost \$1.76 for each person whom he emisted in some way, in 1927, without taking into secount the cost of maintaining his office. In their study of the minor courts in Connecticut, Eitchelt and Parrowill found that the cost per capita of criminal justice for the entire population in Hartford was \$6.48, in New Haven \$6.47, and in Bridgeport \$8.00. This was compared with a per capits cost of \$5.00 in Baltimore, a figure which was based upon an estimate of the director of the criminal justice association of Baltimore. They also found that the cost per case handled in the Police Court was \$6.55 in Hartford, \$6.93 in New Haven, and \$8.95 in Bridgeport; that the gost per cone headled in the court of Common Pleas in New Haven was \$68.19, and in Bridgenort \$80.59; that the cost the case handled in the Original Superior Court was \$123.88 in Hartford, \$190.28 in New Haven, and \$213.06 in Bridgeport; that the cost of each arrest made by the police was \$72.10 72 Hurtford, \$84.40 in New Haven, and \$154.41 in Bridgeport; and that the cost of maintaining each prisoner in the county jail was 229.04 M Hartford, \$45.42 in New Haven, and \$89.40 in Bridgeport.

note: due deals with private expanditums for protection appliest when, private loans of the for criminal acts, and the indirect loans to the community due to the wife of the community due to the community due t

- (c) By means of a questionneire sent to judges from whom ST replies were received, literus samembled caretal data relating to the amount of grand jurcus' and witnesses' deep, mitage free, and the free of bailiffs and court reporters in proceedings before the grand jury.¹⁵⁰ In this way he obtained data for 246 counties in states in which the subcliment was the only necked of acrossition and su ediers of which both was the only necked of accessition and in ediers of which both indictment and information was the only necked of accessition and in ediers of which that has average cost per county of the stone in question in the 246 counties was \$1,660.0, and in the 49 counties \$00.00. Such thems as alaries and in) costs were not irrelated.
- EXV. WITH WHAT CHARITY WHE STRUCTS PROCESSED OF REC-CUTO TARRESTER OF THE SAME PROCESS EXECUTES IN GIVEN JURIS-HUNTONS IN GIVEN PERSONS.

The following are representative studies which have attempted to answer this creetion in one or snother form:

(a) What was the time required to dispose of feloxy cases in a given jurisdiction in a given period after they reached the trial state?

Typical of these studies is that made by the Georgia survey. We findings of this study are embedded in the following table.

DISPOSED OF BY FULTON SUPERIOR COURT

Fleed Go				
Coursesed				
Probled		*===	 	,
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Not Pros				
Other Du				
Not Puna	shed			

10009 AE, p 36. 10709, pd., p 167 (h) What was the time interval between bindover or commitment by the magnifeste to the grand jury and action by the grand jury in a given number of cases in a given jurisdiction?

Typical of these studies in that candiscied by the Oregon crime survey.¹⁰⁰ The findings of this study are embodied in the following table.

TIME INTERVAL FROM BINDOVER TO GRAND JURY DISPOSITIONAN

Grand Just Origination	ge d Geen	Marine No et Repr	Total Range of Days
Not true belle	116	34.21	0-194
True bully	395	1985	0-136
Surgery	621	39.67	0-194

(c) What were the average or median time intervals between the various stages in the presecution of the felony cases which came before the supreme court in a given jurisdiction in a given period?

Typical of these studies is that conducted by the Missouri crime survey. The investigator extended 1,657 cases which came before the Supreme Court of that State in the period 1918-1924 and ambodied has Sadings in the following table.

1989(de Morre, A mercy of the grand pary amono (1931) 19 Ore 2. Her 795, 293.

1990) the augustations of these data Morre and "The correct exchanation of this distance between the contract of the contract of the contract of the contract of the length of the deby between behavior. Prombly Table IXXVII amond the interpreted as showing that grand grans we necknote the relative and grant probability and provided as the contract that the contract the contract of the contract of

SUMMateria crized storage, p. 264. The Meny York Cross Commessor has reade a serular randy comparing the recogning or machine have intervals between the various tagges of prosecution in Meny York City, the large septime Crite, small cates and read cutriets. See Report of the sub-commession on sixtuates. Although The Crime Communition of New York State, 1988, p. 485.

· · · -	Am.	THE STREET
	N-de	Days
Creme communication in this information, Steel	- 3	27
Information filed to dispussion by tend court	<u>s</u>	27
Disposition by trial court to appeal perfected.	7	19
Appeal perfected to hearing by Sogressa Guart .	5	16
Heating to disposition by Supreme Court	1	27
Crime committed to degenerate by September Court	34	27

(d) What were the average or median time intervals between the arrest or the accusation (by indictment or information) and the final disposition of a given number of felony cases in a given jurisdiction by each of the methods by which they were disposed of?

Typical of these studies is that conducted by the Cleveland orime survey.¹¹⁰ The Sadings were embodied in the following table.

AVERAGE TIME PER CASE BY CLASSES OF DISPOSITION

Depositors		Opport. Color: Color:	colenge	Erroral Militar
Guity on And ples	261	16-4	9.8	69.4
Change of ples to guider .	62.5	242	429	44.9
Change to plea guilty lancer offence	666	377	421	53 E
Gustry of felony by yeary	717	246	526	1120
Not graits of felony by yeary	63.8	256	54.7	65.3
"Notice" because of defendant's sun-	816	410	56.7	25.6
Distinged or discharged so makes or decourses	1060	63.5	397	657
"Notice" on all counts, so reason	994	124.6	75 5	1343
"Notice" with converted or de-	181.4		3637	
Duranted, want of presention.	2150	293 3	2454	206.3
No bill by grand pury	293			**
Azrest to true bill	294		,	
The column for one coming the min oppositely 10 facts to programs in the			مسا شد	e hand spen

¹¹¹ Cleveland grams rarely, p. 204. A smaller shally was made as the litterist cross starce, comparing the surgion time subsystem the filter of the complaint is the computation of the complaint. In the computation of the medicals of the products at Illinois and Moleculars. San Illinois come survey, p. 94.

XXVL WEAP WAS THE MEATING COLUMN WITH WHICE SPECIFIC ALTERNATIVE PROGRESS OF SPECIAL VARIABLES OF THE SAME PROCESS. WIRE EXECUTED IN GIVEN JUREAUSTICKS MINISTER GIVEN PERSONS.

The following are regresentative studies which have attempted to answer this creedless in one or another form.

- (a) W. J. Wood studied 147 trials in which the defendants were represented by attorneys whom they had retained, and 58 trials in which the desendants were represented by public defenders, for the purpose of escentaining the average duration of the trial in each class of cases.115 The average duration of the trial of cases tried by atterneys retnined by the accused was 1.826. days: the grerage duration of the trial of the cases tried by the public defenders was 1.017 days. 115
- (b) Goldberg stedled the felouy cases in the Detroit Recordar's Court from September, 1927 to September, 1928. He classified them as cases in which a jury had been waived and cases in which a jury had not been waited. His purpose was to sacretain the median time interval in each class of cases between the filing of the complaint and finel disposition by whatever method. He found that in 962 cases in which a jury had been waived the median interval in days was 31.78, and that in \$24 cases in which a jury had not been waived the median was 22.28.218
- (c) In 1918 the Michigan legislature provided for the reorganisation of the criminal courts of Detroit, merging the Police Court with the Recorder's Court under the same of the latter. After the new court had been in operation a year, Mandel made a comparative study of the meed with which cases were tried in the new court and in the court which it had succeeded. The following year he added to his study the results of the second year of its operation. He prepared a table showing the time required

¹¹⁵Necembly for public defaulter catalifetical by statistics. J. Crim. Law and Criminol. 1916. 7, 200-243.
115Wood discovered who that wiscosses the attractions retained by the accused filed tensoress determents at success of various over, over of which were practed, the public defenders field principally some public defenders field principally some public defenders wisew of lawy in the public between the property of lawy in the public between the public defenders. Crim. Law and Chellinger, 1980, 20, 40-420, at 72.

to dispose of once in the years 1929, 1920 and 1931. Moley made a similar study is 1927, employing the same methods that Mandal had used. The following table combines the findings of both investigators, except that it omits mambers and gives only the percentages ²³

TIME REQUIRED FOR THE DISPOSITION OF FELONY CASES IN DETROIT IN WIR. 1941, AND 1825

Wash																	1949	1736	Provinge ONL	2800
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2																	\$	32	70	23
3									ï								39	-61	77	38
- 4																	J5	40	86	40
- 1		,		ï							,			,			at	24	- 90	
6				ı													27	29	-	12
2		,													,		34		16	36
В											,		,				48	64	107	19
9																	39	67	96	62
		5	3.	ij	¢	LGT)								,			-86	-	444	57
		я	3	27	Ò.	ė,	'n,			- 1-1		r	,				.80	100	100	99
	1	Z)	H	910	þ	191	۰.	,									100			100

Molay points out that in the interval between the period covered by Mandel's study and that covered by his own, the quality of the judges had deteriors and

XXVII. What was the perfect or mental sealing of specific continue in specific fillions in ever joinfections in cities Philod; what was they talue of the products of the labor; What was the business or personnel of them wild beautiful

It will be observed that nearly all of the studies which we have thus far surveyed have dealt with pre-conviction processes. There have been, however, a few studies of post-conviction processes and of the institutions by which they are executed which have attempted to answer questions such as those we have just stated.

¹¹⁵ Kardel, Approxing Detroifs have extend event. Rational Membrigal Review, 1931, 10, 550-557; Misbay, Our estimated counts, p. 65.

- (a) Hobbothe and Brackway report that the suicide rate among prisoners is thren times as great as in the general population.¹⁰ The frequency of sadded among prisoners from twenty to twenty-five years of age in nearly five times that of the same age group III the general population, and javenile saiddes are twelve times as frequent as in the general population. Furthermore, the tendancy to mainlike in much greater in the first few weeks of imprisonment than later on. Sicrests has collected data or German prisoners.¹⁰ He found that the suicide rate is much higher during detection before remviction than during detention after conviction, and that the satisfier rate is succh higher during the first few days of imprisonment than later.
- (b) The most competent statistical study of the relation between imprisonment and instanty is that sunde by Hobbonse and Brockway. He They found that the ratio of invanity to the number of sentences increases with the legath of the sentence imposed. This applies both to those recorded as agreemed and to those recorded as sound when educated to arison. In all sontances under one month, the number of those certified insune. who were recorded as sound at the time of recention, is less than 1 per 10,000. This rate rices to 7.1 per 10,000 at three months and continues to increase much more rapidly than the length of sentence. Prisoners sentenced for one year have a rate of 40. those sentenced for five years a rate of 275 7, more than mine times the rate for sentences of one year, and those sentenced for twanty yours a rate of 2444, or about sixty one times the rate for timiences of one year. Of the cases of insculty among prisoners sentenced to less them a year's imprisonment, the majority come from those recorded as aparound at reception; the cases of immulty among prisoners sentenced for a year come about equally from those recorded as sound and those recorded as uzasound at reception; and of the cases of ineasity among prisoners sentenced for

11100 dt., pp. 591-49

³³⁶ Enghab, prusen teday. Lumina. Longanna, Green and Co. 1922, pp. 550-539.
¹¹⁷R, Sayerch, Dr. Workmann der Freihentante und Unitersofrungshaft auf der Pryche der Gefangenen. Bestimmt, der Kreiner und Gematien. Strafrechtwarenschaft, Heft 14, a. 33. Bunden J. Bundenmer, 1929.

more than a year the greater number come from those recorded as sound in reception. The only conclusion to be drawn in that imprisonment is a determining factor in a large number of cases of intanity. However, two conflicting interpretations can be made of these figures: either criminals are frequently disposed towards insenity and the lunger they remain in prison the greater is the probability that this tendency will become overt, or imprisonment drives the laussies in insastity. Warden Lawes has claimed that the proportion of prisoners who become incane in Ring Ring has been reduced by modification of specific princa policies from 48 per year to 10 per year, 10 which suggests that It is not imprisonment as such but the specific policies used within the prison which must be examined for their cancel relation to the development of inequity.

faction 1. Critical Summery.

Having completed our survey of empleted studies | the administration of the criminal law, we shall now attempt an approisal of the validity and significance of the findings in which they have resulted

It is impossible to estimate with precision the accuracy and reliability of non-manifestive descriptions, either of the processes or of the institutions of crimical justice. We take depend here untiltely muon the skill and competence of the observers,100 We have some indication of their reliability in the reciprocal conrologation of the reports of different investigators who have dimercal the same process or the mase institution. Furthermore, the simplicity of the observations that are made and the fact that the investigators employ concepts of common sense in order to define what they observe, make it probable that they are sufficiently valid as descriptions of what they purport to describe; 161.

¹¹⁸L E Lawry, Life and death in Sing Sing. Hew York: Doubleday, Dorso and COLUMN TO A STATE OF THE STATE

as such they do not have to satisfy very high requirements of accuracy and reliability.

Whether or not they passess sufficient validity as a baris for inference is, however, another matter. They have been used as a busis for inference in two ways. In the first place, institutions and processes which have been studied at particular times and particular places have been assumed to be typical of all institutions and processes of the same types, and it has been inferred. that the characteristics of the funtitations and processes observed. are those of all institutions and processes of the same class. fluch inferences are not justified upless the obscutteristics which have been observed have been accurately observed, and unless the processes and lastitutions observed constitute a fair sample of the institutions and processes of that class. In the next place, such non-cumulitative descriptive knowledge has been used as a basis for generalizations regarding the efficiency, measured by one or another criterion, of these institutions and processes. Euch inferences are unipstified unless the data of observation are valid and unless they are of such a character that common sense is able to interpret them significantly.200 We shall later consider the capacity of common sense to make significant laterpretations of descriptive knowledge of the institutions and processes of crimion? funtice.

It is obvious that the validity of the findings is which quantitative researches is criminal justice have resulted is dependent upon the accuracy and reliability of the census data upon which they have been based. As we have pointed out, those conducted by the connecrative or indulative method have been based entirely upon police, judicial and penal autistics or upon official reports which were thoused we have on the statistics. While in sums instances investigation who have constructed mortality tables have gove to the court files for their convex data, usually

artist selects for portrayal lilist which appears to him to be eignificant, as the proteingator, who observes a process or sententians of crasson! justice, selects for description those characterists of the process or sententians which appears to him to be apprinted. 120 Use must be so since, to we have possion out, we have an investigation of cology of administration difficure.

they, too, have relied upon palice and judicial records. It is notorious that, as a whole, police and judicial statistics are ill doubtful accuracy and reliability and it must follow, therefore, that the validity of the findings of rescarches conducted by the compa method is questionable.²⁰

Valid crime statistics are imperiant for two reasons. In the first place, they are essential to the proper administration of the various institutions II criminal justice, that is to say, they serve an administrative purpose, the In the next place, so we have seen, they are essential to the conduct of research both in the field of criminal justice and in the field of criminology. There are three chief difficulties in obtaining valid crime statistics: (1) It is difficult to davise record evetens which will serve both administrative and theoretical purposes and which can be kept accurately and without too great difficulty by the not too wall trained officials of criminal justice. (2) Because of the very considerable differences in the criminal and administrative codes of the various American furisdictions and III the administrative practices which obtain therein, it is difficult to find a classificatory achame which will result in uniform crime statistics. (3) Even if these two difficulties could be surmounted, it would still be difficult to insure that records would be accurately and honortly kept.

The subject of crime statistics has received a great deal of attention in the United States to recent years. As the result of the afforts of the Committies on Uniform Crime Records of the International Association of Chiefa of Police, police records have been greatly improved in this country. Under the direction of that Committee, police respecting systems and a meanal for compil-

IM Thus South points out in Chingo Paler Problems that whices accurate knowledge of the volume and geographic chairdinance of crust at a given tray the policy department of that only is make to plan the most effective use and fasterization of its personnal.

¹³⁹ For a descrizion of the pure und prompt symmetric relative to crime raise and other crame ristateurs and with respect to poline, purions and reserves in field other crame ristateurs and with respect to poline, purions and second crame for the Federa relation of American American American Comment of the Second Se

ing and recording crime rates have been prepared and adopted by a very large number of American police departments.100 A similar study of judicial records has recently been completed and published in tentative form. 187 There remains, however, a great deal of work to be done in the field of crime statistics before we will have accurate and reliable police, judicial and penal records. 18 It is recognized that the work of the Committee on Uniform Crime Records represents but a fragment of a complete police recording system we Only a beginning has been made in the study of judicial records in America, and there are many difficult problems in connection with the records of sensi and correctional institutions which still await solution."

INICOMPATION OF Uniforms Crume Records of the Interventional Association of Chiefa if Police Uniform crums repairing a complete summal for police. New York J Turks and Iver. Co. 1989. This work was done under the farecent of Practice British. The work was done under the farecent of Practice British. The work was done under the farecent of Practice British. The Company of the chief purposes of the work has been to discuss recovers and turning and the failed of crums it is quarrelly agreed should show be best informed persons in the failed of crums grants to the agreemant person to the police recoved a recent relative best police recoved as the failed of crums grants to the agreemant person to the police recoved to principle of the police persons and the police failed of crums in the police failed of crums failed to the police failed of crums failed to the company of the restricting Official. He appeared to the optimits that Exclusive grunning court grantains would failed an once establish which is the optimit that Exclusive grunning court grantains would failed an once establish when you for the restaurable would failed be appeared to the optimits that Exclusive grunning courts on the course of the adversariation of the chromatal law the propagation of the purposes in the course of the adversariation of the chromatal law therefore the publications.

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It will be understoned, of course, that we do not mean to say that the consum data employed in research in celedual justice are intrinsically deficielye, but only that the data which have been employed are of low sabidity. Let us assume the whickly of the data in order to sak about the significance of the dudings III which such research has resulted. We shall consider the significance of the quantitative findings first, and return later to a consideration of the non-quantitative fludings.

In the first place, it is difficult to interpret the averages and parcentages, and hence the rution, in terms of which the quantitative findings are stated. As we have previously pointed out on average by itself in an incomplete description of the distribution of quantities of which it is a summuser. Assessors must always be supplemented by measures of deviation or variability which indicate the character of the distribution. No concludes can be drawn from a comparison or ratio of averages unless we know how accurately the averages represent the distributions, and the decree to which the distributions do or do not overlan. A differegoe between averages II rabil and eigenfloant only in the light of its probable error. Even though these quantitative findings are merely statistical descriptions, the statistical qualifications Indicated are indispensable to any interpretation of their monuing. There qualifications are enermodese lecking. Averages are reported unaccompanied by indices of the variability of the distributions, and overages are compared without the openion of the validity of their differences being raised or answered. In aburt, from a statistical point of view, the ratios which countitate the major findings of the crime surveys are thoroughly ambiguous.

the second plane, it can be said that these quantitative fludings have no significance whatever except as descriptive knowledge which will sower simple questions of the kinds which we canmounted in our survey of these resourches. Asswers to these

criminal behavior and of efficiency at the administration of the criminal law, although it must be exclosed (but the public, spinnin exposes to be largely after of multiference. There are occasional violences of public visually and similarities against criminal dejectations and officiency, criminal dejectations and officiency, but the majorante are all too sportake, and the subgramms all nos imaginaries.

questions do not enable us to answer questions researches the efficiency of any process or of any variety of any process of criminal instice, or the comparative efficiency of the same process or of the same variety of a process at different times and places, or the relative efficiency of alternative processes or different varieties of the same process. May do they entitle us to answer questions. resarding the causes of the lasticioner of criminal instice. These researches are, therefore, insignificant in the cause that they do not afford solutions of any of the problems of efficiency which are the major theoretical problems in criminal justice. Nevertheless. afforts have been made to interpret them as if they were studies of the efficiency of the procuses of crimical justice as measured. by the criteria of certainty and celerity. He first obstacle to the interpretation of moriality tables or of other researches in criminal fustice as measurements of efficiency is that we lack standards of efficiency. If all crimes that were committed were discovered and all persons committing them were convicted and subjected to treatment, and if no innecest persons were convicted. the processes of criminal justice could be said to be perfectly afficient as matanced by the criterion of curtainty. However, wa know perfectly well that in the nature of things perfect certainty in the administration of the criminal law is impossible of attainment, and it is extremely doubtful that we desire to attain perfact cartainty.150 Even though we were able accurately to deter-

MiThe most experienced enteringhouses as the field do not stake that error. Both Bermans and Mixing, for desimple, have expressly gisented crit what meritality while are not subject to this subreptismen. He'vely have send that it is extensively should whether a mortality halde can measure efficiency at all and that to interpret mortality which can be supported to the contract of the command less may be efficiently at all the command of the command of the substance of the command less may be expected of the command less may be expected to Command the contract of many which deserve further contactoration from those whech glorid to stamment. See Report to Command Command Server, may be 40%-407 in the same very, Bertalite All the same very formed that the command that there is a damper that sums attactors very to over-interpretal, and that a small proportion of interroctors as a committeed with the contactors of the contractor of the cont

Will it improvable (1) becomes we dissure to solicone conflicting or necessary to cally means of the processes of crassial policie; (2) becomes it is necessary to carple human bergap to solvenessable means their electricies; and (3) because of difficulties adherent in the nature of proof. It is desired but we describe contrastly over our own policies. The nature of proof is to desire period contrastly over our of our hybridish on what we can be reasonably into a a much invest degree of efficiency, and because of much popular respective, so that manifested in contraction with the restant Manifested and for the linear. It is filter can the crucial law

mine the rathe between the number of crimes committed and the number of convictions, ¹⁰⁰ it would be impossible to measure the efficiency of criminal justice until we have defined the degree of certainty which we wish to attain.

We are in no bottler altuation if we attempt to measure the afficiency of criminal fastice or of any of its accesses by other criteria. We have already pointed out that the concept of celerity is too varue and ambiguous to serve as a criterion of efficiency. We can, of course, discover the time that it takes to execute the processes of criminal justice, but unless we know how much time should be taken or how much time we desire to be taken, that will furnish as with no indication of their efficiency. Obviously, it would be un extremely difficult matter to formulate schedules for the execution of the processes of criminal fustice, elthough, eourse, in extreme cases our common sense will tell us that their excention has been unutaly delayed. In the same way, we can measure the coat of maintaining the institutions of craninal furtice and of executing its processes, but to know their cost is not to know their efficiency as assessmed by the criterion of economy in the expenditure of public funds, although, again, our common sonse muy tall no in extreme cases that the cost is excessive. In order to measure the efficiency of crimical justice by this criterion. it will be necessary not only to establish methods of cost accounting and cost standards for the tarious institutions of criminal justice, but also to determine what we are willing to spend in the administration of the criminal law. 124

NoTINe some thing is true of any of the major or subviction to represent plan and the processor of crimeral pastice. The processor of chiefston, allustifications and apprehension, for example, sounder as allusted, retrieval of the puber showever all crimera that were committed and analysis of the continuous states of the continuous states, and the continuous states of the continuous states, and the continuous states perfect certainty, we want the satisfied such last states are force certainty, we want to extend such as the continuous states perfect certainty, we want to extend such as the continuous states perfect the space of certainty which we expect of the puber spaces.

When some argument own by small; with respect to all of the orders which a employed to cassature the efficiency of poor-convenient processes, sweeps, perhaps, the control of potently from extent it may be that the ratio between the total market of persons confined as marketimes and the number of shore who except therefront is

Not only do we lack precisely defined criteria of efficiency, but, as we have already pointed out, such criteria on those of certainty. celerity and economy may be inconsistent. We do not know with what degree of celerity the processes of criminal fustice must be executed in order to function with certainty, nor do we know what expenditures are resconably necessary in order to (naure that they function both with certainty and celerity.150 Moreover, the existence of what we have referred to as tangestial ends, that is, ends which are not themselves means to praishment, incorporatation. reformation or determence, increases the difficulty of formulating standards by which the efficiency of criminal justice may be measured. Among these tengestial ends are, as we have said. the protection of citizens against the arbitrary action of officials. the protection of the innotest persons who are charged with crims against conviction, and the protection of what are contraval to Important individual rights, such as the privilege against selfincrimination and immunity from narcesonable searches and sciences. We have already referred to what Dean Pound has called the checks upon procecution." commisting III a series of mitigating devices, constitutional guaranties and procedural requirement which are in large part designed to achieve these tungentia ends. As Deen Pound points out, "the safeguards which ax orience has shown ill be necessary for the protection of the in socret may at times he interseced as obstacles by the In other words, these cheeks upon presecution render

is instanting of direct efficiently in their respect, but of it is named the role of those problems for physical and invested health of syntament, to greatly self-or service their labels for productive properties, and other times labels for productive properties, and on, and it these ends are and demonstrate operated, as some no reformation, at it is extractly difficult to see by what contents the efficiently of productive properties as the terms of productive properties are the respective of the content of the productive of productive properties.

is to be instanted at respect to them.

MFT/ther is goods endough that the supre placely the processes are tracticely, the lines will be the ratio between the number of groundiness embedded and the vansher of the CH course, we do not need research to the first the ground the format of time between the instanteness and the true of the exceedy person the more between the instanteness will be no becomes ungestable for other remains and that for the process of the control of the course of the control of the second person the more than the control of the contr

the processes of criminal funtion both less contain and less speedy, which is only another way of mying that there is an inconsistency among the various ends which we try to achieve in the enforcement of the criminal law. Obviously, this incremes the difficulty both of establishing criteria of efficiency and of measuring the efficiency with which the criminal law is administered. We cannot measure its efficiency solely in terms of certainty, calerity and someony. We can measure it only by the extent to which we achieve all of the ends which we desire attain in the conve of criminal funtice.

However, even if it be assumed that the certainty of the procames of criminal justice is a criteriou of their efficiency, it is an unsatisfactory one because it is impossible to measure their certainty with precision, either by the construction of mortality tables or in any other way, because of two nakeows factors upon which the menuarement depends. As we have said, criminal justice could be regarded as perfectly certain if all guilty persons were convicted and if no innocent persons were convicted. In order to measure the restainty of criminal justice we would, therefore, have so know the number of crimes which are committed, the number of persons who are convicted and acquitted, and, finally, their guilt or innocence. Of them three factors two cannot be known. We do not now know and we have never known the volume of crime.200 The second unknown factor to the guilt

whole entiry of the contributional grainvastics being almosthately pathlind themselves as madely examines of indirectional liberty, these choicles upon grossections are often easily as or many prices to be played by individual officially as the passes of crimany justice, and is no many prices to be played by individual officially on gains of crimany justice, and the practitioners in the criminal courte line-become superi so playing them to defeat the test of their (See gr. 20-27). On the other hand it may be as Debas which no longer obtain and zer now successory for the protection of ritional against which no longer obtain and zer now successory for the protection of ritional against substancy official school or of the subsects against an additional control of the subsects against an additional control of the subsects against additional control of the structure and the protection of the structure of the structure and the proposition of the structure of the structur

or innocence of persons who are convicted or acquitted of the crimes with which they are charged. The acquitted of innocent persons is an end of criminal justice has need as the conviction in guilty persons. Therefore, we cannot measure the certainty of criminal justice by the ratio between the total mamber of crimes and the number of cawrictions. We must know, in addition, that all of the convicted persons are guilty and that all of the acquitted persons are innocent. This we cannot know, it is the probable knowledge which we have of guilt or innocence iff the probable knowledge which we possess as the result of the trial of accused persons. It would be a victors circle to use this knowledge as a basis to electrolising the certainty of the administration of the criminal has the

Because of these unknown factors and for other reasons, it is likewise difficult to measure the certainty with which any of the major pre-conviction processes is executed. For example, we can attempt to measure the certainty of the processes of detaction, identification and apprehension is terms if the ratio between the total number of crimes known in the police and the number of crimes known in the police and the number of arrests made by the police. But we do not know how many crimes are committed. We do not know the validity of police records of crimes known

with respect to cristion interest to the police. In the first, piece, or all Amprians police ingenerates have adopted the record synctron developed by the futurationant American and, in the exect place, this synches topoletic only to first store services are to the sources are discovered with the restrict and those policies departments which are more recording creases inserted to the police, quantoms which prove out of deferences as the way creases advanced to the police, quantoms which prove out of deferences as the way creases. He dehended to the police of the province of the province of the policy of the pol

¹³⁰ As we have printed out, we may know in facilitied cases that produced possible bare board converted or that guidely persons have been acquited, but in the metars of tange such knowledge will be construct or motivate cases.

Mel'Incre as an additional complexation. Prequestly personne accused of orien are convented, ethics as a regal of a plus of greetly or as o result of a trail, for leaser cranses than those of which they are accused. It we chartly extremely difficult to determine where the processors of excessing hypothe have mixtured in such as Difficult quantities of fact are frequently available as the determination of the question whether a given introducible has believed in the paper way in which he is charged to have believed; and difficult quantities of the sure frequently membered in the determination of the greetly appears with the determination of the greetly and difficult quantities of the control of the sure frequently membered in the determination of the greetly and the determination of the greetly appears whether path believed as creament.

to them.241 Even if we did have that knowledge, it would not follow that police efficiency could be measured in terms of the ratio between the crimes known to them and the number of arrests. The police may not only arrest inspecut persons, but they may arrest innocent persons without reasonable cause to believe them to be guilty.140 In order to determine pelice efficiency, therefore, we must know whether or not the persons whom they arrest are guilty or, at least, whether or not there were reasonable grounds to believe them to be guilty; but, as we have pointed out. this can usually be known only in terms of convictions and accuittals. A person may be convicted although innocest in fact. or acquitted although guilty to fact. His acquirtal may or may not mean that he was involvent; and it may or may not mean that the notice did not have removable grounds for helieving him to be guilty,140

14°There is an added deficulty bere. If any estatement of belowing experient to the notice as certainal, may not be extended as all findeed they may meet here concreted who have a transport of the second of the many taxes, both as a matter of first and as a matter of itse, to deverance whether on any a sense; has been percentaged. Moreover, within a second problem than the notice has not of the inhabital beamaking, hardylaris, enthours and matter of the contraction of the second of the s ment incomy, Society and 40 ca

must lacerup, delivery and 40 on week to perfor efficiency to be unusared by the ratio-tivity contains are state as one of control bosons to done and the persons prevaid arrestole holdsoon (fig. number of control bosons to done and the persons of persons arrestole not september for rectar cells; so the correct of gauthy servant. We taken that at the nititure of traings that is simposeable, and that the police will arrest a certain member of property persons. We did not even inside the police will arriver to create member grait or unnecent. We expect them to server produce the final arrivers of questions made to be these that these persons between containing crosses. That is the darky which

the administrative code imposes were Paren 141We experience the same deficulty as measuring the certainty of the indeceptable pre-convection processes. We can afternal to occurre the personal of the process. pre-convertion, processes. We can advanted to occasion to extractly of the protesses and of the preliminary plearing in forcess of the ratio between the number of persons which are accorded a preliminary hostings and the outsider of persons who are bound out by the magnificate to stead the actions of the queuelt pure. But there is no way of hearing about have been developing. They should have been developing. They should have been developing the preliminary to the present and the purpose of the preliminary the evidence to believe them to be gorly. It is an each the purpose of the preliminary the evidence to believe them to be gorly. It is an each the purpose of the preliminary the evidence of the pressure with a surpose of the preliminary of the pressure with our probably guilty of the crossys wells believe the content to constructive of pressure who are probably guilty of the crossys wells believe the content of the pressure of

Furthermore, II is clear that although the officiency of any of the processes of criminal justice degreeds upon the effectory with which its constituent, we cannot discover the efficiency of these processes are extented, we cannot discover the efficiency of these processes by uncertaining the efficiency of the complex process halo which they enter. ** If it can, too, that if any of the processes have been executed, its efficiency will be conditioned by the efficiency with which prior processes have been executed. For example, we may discover that the process of pronecution results in the conviction of only a small portion III the pursons who compute remes and that it is in that some inefficient, but we will not know whether and to what extent its inefficiency is to be attributed to the inclindency of the processes of disaction, idealification and apprehension, or to its own infinitency.

In short, it seems impossible to measure the efficiency of orbitus further or any of its processes; and if this is true, it is obvious that we cannot measure comparative efficiency, that is, the afficiency of the name process or of the same earlety of a process as executed at different times or places, or relative officiency, that is, the efficiency of afternative processes or of different varieties of the same process.

The measurement of comparative and relative afficiency presents an additional shiftenity. Dress if we could measure fits offciency of a single process, we could not measure comparative or relative efficiency unless in some way we were able to control all other factors which might influence the efficiency of the same procsen when expected at different times or places, we that of alterna-

¹⁴⁴FO: example, the process of parametrica in composed of the processes of the profession process. The profession process is the second of the composition of the com

ethoromy of any of the constitutions processed.

1º Any most softwarding makes which compares side security of crimanal justice or of gry
of its processes in the same; in-wistons for different years, or compares the results
of the state processes or of the same variations of genomess in different justiciations,
may be regarded as states of comparisons using. In the same way poparate tables
can be put together and comparisons using. By constructure a state table or by
putting different tables longitude, although can be used to device out the relative ofticasely of although the page of different variations of the means precome.

tive processes. Our commun seems tells us that the efficiency of any process is a function of the nature of the organisation, the quality process is a function of the character of the physical facilities of the lastitution by which that process is executed, and also of certain factors in the environment which are extraments to the institution. The efficiency of the name process as different times and places and of alternative processes may vary with variations in these factors. Therefore, in order to measure comparative or relative efficiency, we must be able not only to measure the efficiency of a single process but to control those factors. Obviously, we are unable to do so.

The significance of the knowledge which is recorded in the quantitative fludings of research in criminal justice is, therefore, axtremely limited. We have already indicated went this limited. significance is, by eminerating some of the questions which knowledge of this sort is able to answer I has been said that research conducted by the cancer method has shown, in addition, the relative importance of the various crimes in the administration of the criminal law, by showing the number of prosecutions for each; the importance of youth in the problem of crime, by showing the median are of those charged with crime; the accountly for executive control of the indicial and administrative occurned, by showing how the policies and practices of officials within the same jurisdiction vary: the great importance of the plea of guilty as a means of obtaining convictions; the declining innortance of both the grand and the setil jury in terms of the proportion of the total number of cases which are finally disposed of by them; the dominant importance of the prosecutor and the relative insignificance of the judge in terms of the number of cases which are eliminated by each of those officials; the large number of different steps into which a proscention may be divided and the large number of ways by which ill may be terminated. All of this knowledge, however, is descriptive.

Although the descriptive knowledge contained in the quantitative findings of research in criminal justice has Httle theoretical significance, it has some practical importance. It is useful in leacting problems which cannot be located by non-quantitative itsetipite knowledge, although III will not snewer them. Prior to the crime surveys, we knew such of what they have revealed, but our knowledge aften inches precision. For that recaon, we lid not realise the existence of what now appear to us to be problems equiling hather study, usely, for example as the problem equiling hather study, usely, for example as the problem control of the processor of prosecution. Descriptive knowledge of this next is also of protection. Descriptive knowledge of this next is also of protection. The control of the control of the criminal law. ¹⁴ In the next section we shall discuss such proposals and their beats III knowledge.

The non-quantitative descriptive knowledge in which research in priminal justice has resulted, has a greater theoretical significance than the quantitative and, beson, is of greater practical ntility. It has greater theoretical eignificance since, unlike the quantitative, we can interpret it significantly, even though we have no scientific knowledge of the etiology of administrative afficiency. We have seen that common sense is unable to interpret. descriptive knowledge about criminate and their environments and, therefore, pashie to control crimical behavior exempt by chance. But in the light of our common sense knowledge about the nature of such a practical undertaking as the administration of the oriminal law and of the conditions of its efficiency, we are able to interpret non-quantitative descriptive knowledge of the institutions and processes of crimical justice and, on we shall see, to do much toward increming the efficiency of criminal pustics. If we really wish to do so.

In Markey has send that wout of the figure discovered by the street starterys shore well known before the surveys found filtent out and published them in a new synthesis in the states as there share when first first street the purpose of aroung public affects as the enforcements of the crumsnal laws; that slary provide public officials with make the enforcements of the crumsnal laws; that slary provide public officials with make the enforcement of the crumsnal laws; the street public officials with make the entries. Report to Columbia Crosswellington Survey, by 22-427. He also pouns out, however, that the would of poshtonis strategy has found, the narray method useful for course to graps with a disagreeable shousans. Remines accept that the make starbution coursinod us the northeigh slights leaf disagreement in healthness or working hypothesis told atfairs: the parts of administration, which should be firstlery exampled. Report on proceedings, p. 55.

Our common sense tells us that institutions which are badly organised or administered, or which have a distribute or incompetent personnel, or which here inadequate abytical facilities. will not function efficiently; and that this is true of the institutions of criminal justice as of other institutions by which proctical affairs are conducted. It is this knowledge which makes it possible for us significantly to interpret the non-quantitative findings of research in criminal justice, for such findings are always descriptive of the institutions of criminal justice, of their structure, their personnel, or their equipment. The spentitative findlums, on the other hand, revely describe these institutions. As we have seen, they describe, rather, the results of the processes of criminal justice, and in terms which are succeptible to so many interpretations that we are unable to my which of them is the correct interpretation. We are neable to say whether or not they mean that the provinces of criminal justice are inefficient and, if inclicant, to what their inefficiency is attributable.

Most of the quantitative receives, completed and projected, in our only insignificant; if is sheet unnecessary and pretentions. It is unnecessary and pretentions in unnecessary the site of the significantly, it has little practical willty, and because accurate non-quantitative descriptive knowledge, as we shall see, is sufficient for our practical purposes. It is necessarious in its imitation of what is mustakenly supposed to be scientific sectiod; the quantitative character of its findings should not concess its true nature as undirected descriptive week of insisterminate validity.

Chapter X:

INCREASING THE RESICUSDRY OF CRIMINAL JUSTICE BY COMMON SENSE

We are assuming, for the moment, that II is derived III administer the criminal law as efficiently as possible; and we turn to the question whether or not we now have or can obtain knowledge which will be found unoful in efforts to increase the efficiency of criminal justice. In order to increase the efficiency of any practical activity we have only better to adapt the means we amploy to the ends we seek. The relation of means to end is one which is capable of being translated into a capaci relationship. Etiological knowledge in therefore, pactul in solving practical problems of efficiency. Such knowledge may be either scientific knowledge or common sense knowledge. Generalizations derived from common axperience are comotimes able to answer stiplogical questions. When these generalisations can be used to interpret descriptive knowledge about the various aspects of our practical undertakings, we are able to contrive more efficient means for achieving our ends.

Technology, as we have said, ill the application of scientific knowledge to penetical problem. In contrast to technology, what we have called trial and error in the way in which we proceed in the solution of sugest penetical problems when we lock knowledge. The phrase trial and sersor indicates that we are as likely to this as to succeed, whosees whom we are guided by science in our practical undertakings there is a high probability of success, a probability commensurate with the validity of our knowledge. We have distinguished between common some generalizations and individual opinium. In the light of this distinction, it can be suid that trial and error is a procedure guided only by opinions. The application of enuments sums the involedge to practical affairs is clearly distinguished from processes of

trial and error; it is more like technology in that the probability of the success of such undertakings is commensurate with the probability of our common sense knowledge. Scientific knowledge is, however, superior to common sense knowledge; in only is the probability if its propositions detarated by reference to definite evidence, but its analytic structure indicates the interelation of a field of variables. Practice directed by common some knowledge is uncertain to the extent that common actual does not afford us as analysis of the corvelation of all the relavant variables. Such practice, thousance, falls between technology, on the one hand, and trial and error, on the side.

Since we lack scientific knowledge of the etiology of administructive efficiency, our attempts to increase the efficiency of criminal justice must either be directed by common sense knowledge or they are merely efforts at trial and error. We have seen that we cannot comised criminal behavior by common same knowledge; that in the absence of scientific knowledge of the sticlogy of crime all of one afforts to control criminal behavior are trial and error attempts. We are nauble in terms - common experience in make alguideant etiological interpretations of the descriptive knowledge of criminels and their environments which remarch has yielded. But comeson sence is able to answer questions regarding the causes of administrative efficiency or, to my the same thing differently, the causes of administrative inefficiency. Thus, we know that the efficiency of crimical justice is a function of certain factors which are essential elements in the processes of criminal justice and of certain factors in the environments in which the institutions of criminal justice operate. The generalisations which express this knowledge can be used significantly interpret the descriptions which investigators have given us of the institutions and processes of criminal justice. We are, therefore, able to propose or II undertake ways of increasing the efficiency with which the criminal law is administered.

Criminal justice is now efficient to some degree. To some extent we are detecting crimen, apprehending and convicting criminals, and subjecting them to treatment in the modes pre-

scribed by the criminal law. By current means we have been able to contrive means which are to some degree adapted to our ends. We should have been mable to do this, just as we have been mable to control criminal behavior except by trial and error, had we no knowledge of the conditions of administrative efficiency.

The administration of the criminal law II only one of the activities which comprise public administration or the administration of government. Public administration has been defined as the management of men and sustrains in the accomplishment of the purposes of the state. This nakes very clear the similarity of the administration of government to the administration of business enterprises. Business, it may be said, is the management of men and materials in the accomplishment of the purposes of the atministration, has a traperaters. There is no empirical science of business any more than there is an empirical science of business any more than there is an empirical science of business and administrative afficiency we should be unable successfully to transact business. But the efficiency with which we conduct business enterprises III perhaps our proudest boast and our chief story.

Durings is conducted and the criminal law is administrated by institutional instrumentables. Whether they be the institutions of business or of criminal justice, their elements are the same; an institution is made up of its structure, its personnel and its equipment, of most and materials and of the organization by which they are managed. Our common sense tells us that the efficiency with which an institution will exacute wither the processes of business or those of criminal justice III a fraction of the manner is which its organization will exact experience, skill, training and similar characteristics.

¹See Moley, Report to Columbia Crimmilageal Survey, p. 201, quoting Laqued White in that effect. Whose ups, "They delication combinates the manageral plans of adjunctations and instruments to legislations and forced tapect."

ACE course, we are not suppose that the administrative of government and the data which are similar in character, but only that they are suniques are accounts which are similarian in character, but only that they are suniques. We shall help: while it as young of that differences.

^{*}There is a rational scenars of politics. What is today known as political science and which purposes in he an empirical amenc is, like associogy, a body of descriptive incoving plus measure some governments.

of its personnel, of the kind of equipment with which it is provided, and of certain flactors in the anxironment in which it extats. Our common some fells as that as one or more of three factors vary, it is highly probable that the manner in which the institution disclosures its functions will vary; and it also indicates to us how we can and must vary those factors if we would cannot be institution to function more efficiently. Knowledge which is descriptive of the elements of the institutions of criminal justice and of the relevant factors in their environments in therefore highly useful if we would attempt to increase the efficiency with which the criminal law is admissionered, since we can interpret such knowledge in terms of common experience. We do not have to awalt the development of counties knowledge of the citology of administrative efficiency is order to be able to proceed to improve the alminate three efficiency is order to be able to proceed in improve the authoristic efficiency in order to be able to proceed in improve the authoristic efficiency.

This point can be made entirely clear by reference to current proposals for the medification of the institutions and processes III crimius] justice, of which the following is a brief summary.

(1) Proposits for the modification of the structure and organimation of institutions. If H proposed that some agency, such as a
uniquity of justice, be established in each state for the supervision, coordination and direction of the various institutions of
oriminal justice, in order to concentrate the responsibility for,
and the direction of, the administration of the criminal law in a
single body; that policy departments he so organized that the
chief or other executive bond can supervise and direct the various
police activities, and that to this end the number of departmental
units should be so Hunited and related activities should be so
grouped, that a small number of bureau chiefs can exercise daily
supervision of these activities under the general control of the
executive head; that the responsibility for, and the control and
direction of, all prosecutions in each state he centralized in the

^{*}Such inner jugge to the hand of inner ledge which as the last chapter we designated non-quarketine descriptive knowledge, or we there quanted out, it as easely quantitative. It results there are required confincted by direct absentions and carely from that conducted by the cames multiple.

office of the attorney general ar a director of presencations; I that some agency, such as a judicial council, he areated to exercise administrative control of the judicial entablishment; and that another agency be created in supervise and direct the administration of probation, purels and other modes of som-institutional treatment.

If it is known that a number of institutions with related activities necessarily participate in the conduct of any practical enterprise, such as the administration of the criminal law: that these institutions are functioning more or less independently of one another and at cross purposes; that the manner in which some of them function is conditioned by the manner in which others function; that responsibility for the conduct of the enterprise is diffused; and that no assency exists for supervising, coordinating and directing the activities of the several institutions. we are able to interpret this descriptive knowledge significantly. We know that such conditions make for administrative inefficlemey. Our common sense tells us that if we can find some means for coordinating, supervising and direction the activities of the related institutions, the result will probably be increased afficianer; and one knowledge II such as to easile as to contrive means for that purpose, either those which have been proposed or some other.

In the same way, if it is known that the structure of a single institution, for example, a police department, is such that its amount where the such cannot supervise and direct the activities of its esveral parts because of their large number, or that the structure of some other institution, for example, the judicial establishment or a single court, is such that it entirely lacks administrative control and direction, we also know that such conditions operate

He is Report on presentance, p II, the Mateuni Chammont and "Taking the country as a whole, the fainters unless charge openies to make the proposed-py organial parties in the States insidective size. When of adequate cyclem and organization in the office of the severage proposeday, deconvaluation of protections whereas law and order laws comes to be all much mose them found concern, diffusion of responsibility, the unlessed relations of protections to spolitors, and it many principlectant no provision for a presentative commissionals with the index of prospection under the conditions of balley."

against administrative efficiency." Again, our common sense tells us that executive control and direction is emential to the proper functioning of complex institutions engaged in practical activities, and enables us to proceed to device methods of administrative control.

It has been stated that there are three basic principles of administrative organization which should be explied in the organisation of police departments: (1) there should be a unified command, exercised directly and continuously upon the arraral functions or services: (2) the number of major units should be so limited as to permit general supervision by the executive; and (8) related activities should be grouped so that a small number of bureau chiefs can exercise daily supervision under the general control | the administrative head. These, obviously, are not propositions of an empirical science; they do not express scientific knowledge of the eclology of administrative efficiency; they are common sense superalizations recarding the conditions of afficiency in the conduct of practical activities.4 Business II confronted with such problems daily and encoods in solving them mure or less wisely and intelligently.

(2) Proposale for greating new institutions, for transferring the functions of one institution to another, for more precisely defining the functions of institutions, and for specialization in the discharge of functions. It is proposed that state police forces be established to provide adequate varul policing; that crime prevention units be established in solice departments: that the office of the coroner be abolished, the office of medical examiner created and the functions of the furner transferred to

[&]quot;In Our crument counts, On MILL, Moley may that our counts should be organized, on a baseous band, with an executive head lawing board powers, and with integration al effort and specialisation of cours

Chicago police problems, p. 12

[&]quot;Langer peace principal, p. 12.

"It as not to much to any five at the writings of such won qo Populark and Sample,
so to be found most of the workers mainful an onder to successe the efficiency of police
processes. These may possess the responsing effectivelyne knowledge, and their long
experience of practical aftern or present and of police activates in periodary, is such
as to entable them, to outerpret this immediately gaussificantly and an contrive means
for making police departments some officerous against may be consumed to the
control of excellence, reinfollments and against main.

the latter; that the functions of the police and the presentor be more precisely defined and coordinates; that the office ill public defander be established;" that the various functions of the prosecutor's office, ruch as existinal investigation, preparation of cases for trial and their presentation, he exceeded by specialists within the presentative staff; and that specialized courts, such as traffe, morals, and family courts, he exceeded.

Ruch proposals as them are circlonity based upon knowledge, of greater or less validity, which is descriptive of the organization and personnel of such institutions as the affices of the constable, he substitutions as the affices of the constable, he substitution will be substitution of the manustian descriptive of their respective functions and of the manustian descriptive of their respective functions and of the manustian which they discharge them; and they are based upon common source knowledge that institutions will probably function ineffectively if they are absolved, or if their functions are such as unduly to tax thair expectly to discharge them, or if thair functions overlap, or if functions which demand special skill, experience and training, are being executed by an ematified, inexperienced and untrained personnel.

In addition to their primary functions of repressing and detecting crime and of identifying and apprehending criminals, police departments have such functions as licensing turindus, pawabrokars, junk dealers, dance helds, etc; regulating traffic; conducting a public ambulence service; suspervising poroled convice; inspecting public halls and elevatore; registering voter; taking a census of the population; examining prostitutes for referred diseaser; operating employment agencies; and so on. 16 While opinions as to the proper scape of the functions of the police may differ, it is obvious to common assess that the greater the number and the more varied the functions which any police

Fig. most jurisdictions enlayed persons account of crosses are represented either by assigned exploit or integrated paid committed fig. 10 countries for the control of the Nettonal Committee of the State of the Committee of the Nettonal Committee of the State of th

department has to exceede, in addition to those which are directly related to the enforcement of the eximinal law, the more likely is that the latter will be neglected and that some of them will be discharged with maximum efficiency. The manner in which police departments actually function, confirms common sense in this view.

This problem in typical of those which the proposals which we have just enumerated are designed to solve.

- (3) Proposals for charges in the methods employed in munaging the institutions of criminal justice, and in their record systems.
- It is proposed that a modern system of bookkeeping and accounting and modern methods of office measurement be installed in the prosecutor's office; that prosecutors adopt uniform regulations with respect to such matters as the soils prosoud, the acceptance of pleas of guilty to leaser effected, and the other mathods of disposing of cases without trial, in order to fix responsibility for such dispositions; that a bureau of statistics be created in each state in standardise police, judicial, penal and other records, and to collect and campile such records, and publish annually the data relating to the activities of these institutions and to original instice in general; that police records be devised which will facilitate administrative control of police departments; that preceedings in the minor courts be conducted with decorpin; that they maintain an un-to-data record system; and that they record the reasons why they dispose of cases in one way rather then enginer.

These proposels are based upon common seems knowledge that careful formulation and significantion of administrative methods and adequate records are essential both to the proper functioning of institutions and their administrative supervision and control, and upon descriptive knowledge, of varying degrees of validity, of the sections of internal administration or management and of the recents of the funditations of original justice.

(4) Proposels for alternations in the methods of selection, the compensation, the tenure and the training of the personnel of

the institutions of criminal justice. It is proposed that the appointment and tenure of the commissioner or cirief of police be hased solely upon his shillty and efficiency; that policemen be selected on the botto of civil service emminations approlemented by paychiatric tasts, and promoted solely on the baris of merit: that their milaries be such as to nermit decest living standards and that they be given one day off weekly, as spons! vacation. and sick leave with pay, and that remonable provision he made for accident and death benedits and for a pension; that the mambers of the profusional stall of the prosecutor's office be selected and promoted on a busis of merit, either by civil service araminations or some other method," that the legal profession should be so organized in each state as to incore the competency and character of, and discipline among, atterners who practice in the criminal course; that judges be selected on the bank of training, experience and temperament, and clerks, bailiffs and other officials attached to the courts, on a civil service basis; that exemptions from jury service be curtailed; all that police and other officials III adequately trained.

Proposals such as these quite obviously proceed upon common seas knowledge, which there is so used to condrux by research, that the manner is which any institution will function is jufficenced by the character, the ability, the experience and the skill of its personnal, and upon knowledge, of greater or less validity, of the characteristics of the personnal of eximinal justice which indicates that many efficials are to a considerable slagree desirint in those qualities, largely as the result of the operation of political influences in their selection. Sinch promosals are desirant to im-

[&]quot;He is Blayest on proventions, p. 13, the Hattaroof Commission and "In many circum with such any signalized of the distinct, and as at register intervals, a whally new and of succession course in. The most sequentiate of a promotion of other may devolve upon these assentiable. They come in whealty innormation with the produce cares to be a sequential to the contract of the contra

prove the quality of the personnel of extuninal justice by profuscionalizing the various services, as far as possible, by providing for security of official tensure, by providing for the selection of officials on the basis of their character and competence rather than on the basis of political considerations, by providing inducements, such as higher compensation, which will attract a better type of individual to the public service, and by making provision for the training of officials.

(5) Proposals for changes in the physical equipment and facilities of the institutions of criminal justice. If III proposed, for szample, that police departments be equipped with the most modern devices for speedy communication, such as the proposal that the prosecutor's office be equipped with adequate physical facilities.

fluch proposals are based upon common seems knowledge that the flunctioning of any institution will be inferenced by the character of its physical far-littee, and upon descriptive knowledge III the equipment of the institutions of criminal justice which thows that to a considerable extent it is sationated and obsolute.

- (6) Proposals for the modification of the processes or
 warieties of the processes of criminal justice.
 - (a) The processes of detection, identification, and apprehension. It is proposed that upon their arrest persons be taken directly before an ananchaing megistrate and not to the police station, so as to resider the use of the third degree impossible; and that the susmons be employed instead of the arrest whenever physical custody of the accessed is unnecessary to insure his supremissor.
 - (b) The process of hall. It is proposed that ball bond forfeitures he set saide only for exuse, and not us a political favor; that hall be desired persons with croinsal records who commit serious offenses, and that it be made more difficult for those without criminal records; and that it he decision if exact ball or in release an accessed upon his own recognizance be

made not arbitrarily, but upon the basis of the accessity for ball to insure his subsequent aspectants.

- (c) The process of accusation. It is proposed that accuation by inferention be under alternative to accusation by indetennat in felony cases, the supposition being that the grand jury has become a superfluore institution in a large proportion of cases; and that the technical requirements with retard to the form and content of the indictment be valared.
- (d) The trial processes. It is proposed that the judge conduct the examination of juture in order to speed up the trial; that I be permitted to comment upon the weight of the evidence and the credibility of witnessess in order to assist the jury in the discharge of their functions; that in the interest of celerity the accused be parentifed to waive trial by tury in all except emital cuses; that in the interests of certainty and colority continuances or adjournments of cases be granted only for cause and not so favore; that in the interast of fairness appollate courte be empowered to great new trials if errors were committed upon the trial or if the evidence of quilt was insufficient, although the accused failed to take the naramary exceptions; that the judge and the presecutor be permitted to comment upon the failure of the serused to become a witness in his own behalf; that in the interests of certainty the accessed he required to notify the prosecutor of the nature of his defence so that the latter may be prepared to meet it; that the state be given the right to appeal in cases in which the accused are acquitted; and that a ununimous vardict of the jury be required only in capital cases.

Proposals for sodification of the processes of criminal justice rate questions which are different in character from those raised by proposals for the abtention of the institutions of criminal justice. The initer proceed upon common source knowledge of the nature of practical undertainings and of the conditions which are necessary to insure their successful consummation, whatever their character. They proceed upon common source knowledge

that exhateour the character of the processes of criminal justice, their efficiency will, in part at least, he a function of the chargeterlatics of the institutions by which they are executed; and they propose means for improving the structure, the personnel and the aquipment of these institutions. But proposals for the mediflustion of the processes themselves proceed, in some cases, upon the assumption that solutions the characteristics of the institutions by which they are executed, one process or one variety of a process is intrinsically better adapted to a given end than another, or, although less well adepted to that and, is better adapted to some other and which we should like to attain.

Thus, proposale that the information be employed instead of, or as an alternative to, the indictment on the method of accumtion in falony cases, or that the judge, instead of counsel, examine jurors upon their voir dire, or that the judge be purmitted to comment upon the weight of the evidence and the credibility of witnesses, or that the accused be permitted to waive trial by jury, are based upon assumptions as to the relative efficiency III alternative processes or of different varieties of the same process as means to the same and. The knowledge which would be most neaful to us in the solution of the practical problems raised by proposals such as these, would be knowledge of the relative offclency of the procuses of criminal justice; but, as we have seen, we do not now have and we cannot chinin such knowledge. However, knowledge which is descriptive is not without utility in the spintion of such problems. If we have knowledge of the characbefintles of the two processes and of the institutional instrumentalities for their execution, and if we have been able to observe the manner in which these institutions execute these processes to specific cases.12 we shall be able to force common sease judgments regarding their relative efficiency.

On the other hand, proposals that immediately upon his arrest an accused be taken before a magintrate, or that the annimona be amployed more after instead of the arrest, or that accused per-

²⁷Again we write to point out that such knowledge will availty be non-quantitative and the product of the method of dever observation, and only rarely quantitative knowledge primed by the common matter?.

sons he more frequently related upon their own recognizance, or taken before maginizates immediately upon their arrest, are not based upon the sammption that the summons or the release of an accused person upon his own recognisance in a more effective method than the arrest or detention in fail or buil of securing his appearance III subsequent stares of his prosecution, or that examination by a magnetrate is a more efficient means of obtaining confessions than the third degree. Indeed, we know that it is highly probable that they are him efficient means for securing those ends. But those who make such proposals believe that It is better to amploy has efficient means for achieving those ends than unnecessarily to confine large sumbers of persons in fall or to obtain confessions by compulation. Obviously proposals such as these do not raise questions of the relative efficiency of alternative processes or of different varieties of the same process; they reise, rather, questions of the relative importance to us | diffarent ends. Nearly all of the proposals for the modification of those provisions of law which bean Pound has referred to as checks upon prosecution, to example, as the proposal thill the privilege against self-incrimination be contricted in its application, raise such questions.

As we have seen, these are questions as to what our sads shall be, and not questions as to the means which we shall amploy the subtless them, and they cannot be asswered in terms of knowledge. I ladeed, many of the proposals of the first group reise questions as to ends, as well as questions of relative efficiency. This if especially true of proposals for the modification of the processes of procession. Namely shways these proposals are debated not merely in terms of the relative efficiency if alternative processes as means to the sums end, but also in terms of the relative effect of the processes as medifications upon other and

14 See o 243, St. S. July 10

This we present out to Chapter II, a rational relations of practical problems depends upon incredign; film, such questions as what our such shell be can be answered rationally only in frome of incorridge alone what they should be. But knowledge contact council as to appear the problems reticularly; moreover, the shower of immediate colin forces on to proceed a strikenily; moreover, the shower of immediate colin forces on to proceed a strikenily; moreover, the shower of immediate colin forces on to proceed a strikenily, the president of the strikenily of the strikenily.

which we desire to achieve, such as the protection of the citizen against the arbitrary action of officials or the protection of invocent persons who are accused of crime against unjust conviction. Not knowing and being unable to ascertain what these affects will be, we are reluctant to adopt such proposals.

Descriptive knawledge—and we possess and can obtain no other at the present time—in, therefore, of the greatest practical utility in attempts to increase the effectory of criminal justice by reforming its institutions, rather than its processes. Because of our capacity to interpret in significantly, ill a highly useful for that purpose, just as it is in utilization for measure the efficiency with which business enterprises are conducted. But we must guard against the following possible misunderstandings of this action.

(1) We must not be understood as hering eald that the problems which are involved in increasing the efficiency of criminal justice and those which are involved in increasing the efficiency of business are identical. We have said only that they are similar; there are obvious differences as well as obvious similarities. It is more difficult to being about alterations in the processes and Institutions of original justice than in those of husiness. As we have seen, more often then not their alteration is impossible without legislative action. Legislation is a cumpersone and a flow method of reaching decisions as compared with the procedure of the directorates of husiness enterprises. Because of the

If There are this two clored manufaments to undefications of the processor of variability justice or to presentation relation (1) user underlying to accrete verb map for-five of certainty questions regarding relative efficiency, and (2) the unquantizing of and city inspectations regarding, relative efficiency, and (2) the unquantizing of and city inspectations of the constraint of the control of the second law. The assure read to elementristic efficiency as destructed, the relative of the machiness million films of the generates of related junctions.

The section of the purpose to hold up humanum in general we a rocket of udministrative medicineary. A purposing humanum are very publicately materials. The statement is the purpose of the section of the confidence of the efficiency of cruminal partor. The near who confident these bisecences have been considered with a very leaf dispute, and considered why severial problems of the states general character in the publicate which confident those the section of the states general character in the publicate which confident those who would make the section of the states general character in the publicate which confident those who would make the section of the states of the section of the section of the states of the section o

rigidity of the administrative code and for other reasons officials have much less freedom of administrative decision and action than the administrators of husiness. The executives of criminal justice have not the more power on business executives to control the atrecture, the personnel and the equipment of the fustitations which they administer. By and large, their ashardingtes are chosen for them; and they have no power or a very limited power to discharge or promote or discipline them or to regulate their compensation. Basiness and business administrators are much less aubject to the pressures of social groups. The ends of business are more sharply defined, how complex, less namerous and less inconsistent than those of criminal justice; and, for that reason, il is easier to measure the efficiency of business and of its procedures than of criminal justice and of its processes. Profit and loss are much more defaits criteria of administrative efficlency than such concepts as certainty and celevity.

These differences, however, merely make it more difficult to vary the processes said institutions of oriental justice that these of business. They are not differences is the conditions of some intrative efficiency; and they do not render it more difficult in oriminal justice than is business is accertain the cuses is institutioned descriptive knowledge.

(2) We must not be understood as having said that common some knowledge of the conditions of administrative efficiency is a useful in practice as scientific knowledge of the stiology of administrative efficiency would be. While common sense bells us that the efficiency with which the processes of criminal justice are executed is a function of the mature of the processes them salves, of the character of the enganismitos, of the traits of the personnel and of the quality of the equipment of the institutions by which they are excessed, and of such carrivamental factors as the pressures of publical and criminal groups, common sense is unable to say in what ways these factors are related to one another or, indeed, completely to etumerate all of the relevant factors. Common sense is, therefore, anothe to say how and to what extent variation of one of these factors will cause another.

to vary, or how or to what degree administrative efficiency will vary with variations in one or more of these factors. If we had such knowledge we would passess scientific knowledge of the etiology of administrative efficiency, and we abould be able to control the processes of existinal funtice by methods of technology.

That does not mean, however, that we cannot control them to some extent by common sense. While we may not know the precise extent to which and the precise meaner in which the officloney of criminal justice will vary with variations in the charactor and the competence of administrative officials, we can be perfectly sure that it is highly probable that the more incorrupt and incorruptible, the more shilled and experienced, and the better trained for their tasks officials are, the more efficiently the grintly not law will be enforced.

(8) Our nes of the expression 'common sense knowledge' must not be mismaderetood. By common sense knowledge of the conditions of administrative efficiency we mean only knowledge of the causes of administrative efficiency which is not scientific, that is, which is not expressed in the propositions of an empirical acteace and which is the result of common sense charryations and inferences rather than of scientific resultches." We have not mount to say that such knowledge is the common possession of all men or that those men who possess it, have it to the same during. We have not meant to ear that all men are able significaptly III interpret descriptive knowledge of the processes and institutions of criminal fusion or that the interpretations of all men who have that capacity are of squal value.

The value of such interpretations depends upon the windom, the insight, the understanding, the detechment and the experieace of those who make them and, especially, upon experience of the processes and institutions of critalnal justice. An arpert in this field is not one who pomesses orientific knowledge III the etlology of administrative efficiency, for there is no such knowl-

¹¹The term 'arientale noticed' is often companied as if it what only practic observational techniques. Our discussion in Clausier IV unites it clear that while practic observational techniques are independent to conjunctal venturely, ichestife mathet practicip, of people summer than person absorption.

edge. He is one who poweres rather studies knowledge of the characteristics of the processes and institutions of criminal instice and of its ends, gained by long study and charrention; He is, in addition, one who can interpret this knowledge wisely."

It is upon such men and upon the descriptive knowledge which they have or can obtain that we must rely in our efforts I improve the administration of the criminal law. Because of its stilling in the solution of practical administrative problems. precise and accurate non-ensutitative descriptions of the institutions and processes of criminal justice should be the sim of future research in criminal juntice." Research by the count. method, resulting in quantitative descriptions, should be undertaken with discrimination and only when # gives promise of results canable of significant interpretation." The toy which investigators experience when they can express their findings in numbers, in charte, E graphs, and to eleborate tables, does not fustify the collection of mames of data of doubtful validity and of little rignificance. h Too much research been done which has marsly revealed the obvious or has disclosed what we already knew.

Above all, we should realise that we now have enough knowledge to improve the administration of the criminal law, if we really wished to do so. That we do not one this knowledge, is additional systems that we have no secular duties to increase

¹⁸Ht is septificant that the research send to be accountry in crossest justice by such men as Sunth, Modey and Sufficients, a cloudy of that character

¹⁰He should instant have had first-hand scanners with the enforcement of the uringpa) july or such the inchistrant of grammal platical, but not example, by green preferably so so officed

We are practical purposes; it is, for canopie, much more media to know that per-turbed on the property of the property of the pro-ducted with great much, that the presumation of the evidence is causal, tareless and instructingent, that polarized influences are summer; in the subgraturate's source, that the prosecutor does not prepare how cover, sic, thus it is below that the magnetizate assumes 42 or some other precent of the charge.

ANnothers, and what as preprinting collect (supurpose), famps o ristorated, offertyreness which is both sacisli and damperous An argument or on argued which is supported by the criston of figures also on an apparation or an argued which is supported by the criston of figures also on an apparation of the supported property of the supported of the numbers have any significance whatevers. Thus, the name of comma data collected by the criston partyry on the sack "stepsingly in private on undergoe that cristonal) period is in-difficult, even through the summers that or mining of the north

the efficiency of existinal funtice. To postpone serious efforts at reform until we have more knowledge is not a praiseworthy exhibition of the scientific temper; it is rather a manifestation to our unwillingness or incapacity to make the alterations in the processes and institutions of eximinal fastion which are clearly indicated by the knowledge which we now have; too often we resort to research as a messas of escape from exigent practical problems. A single example will serve for purposes of illustration. We know perfectly well that the quality of the personnel of criminal justice in inferior, and inevitably so, in view of our methods of calcetter, premoting and training officials, and view of our apathetic and indifferent attitude toward official malfeaunce and incompetence." But we make no really serious affort to improve the quality of the personnel of criminal justice. We seem to have reconciled ourselves to mediocrity and venglity in public office if, indeed, we do not desire them, and to have convinced ourselves that by modifications of the administrative code we can counteract the dishoncely and signifity of officials."

BiTto parset why he statement for officiency of crossmall resistant, as to supprove the quality of its personnel. As compaced with observations in the presents, many the quality of the personnel, many of the personnel resistant principal properties on the processors are of slight maperiment. As Moley has each Our translated outers, p. ser. "In these first entrances in which is haze been trued, personnel of degreements been fielded to evener exacted differences in the not read. For Cook properties and estimate products to do wall in body organized contra while . Inferior personnel to find you do the motion of irranciantal professions.

NO to course, as order to mercures the effectivency of command residence on must not only how the exames of sectionary, but we must who is able to elements them. However, handwiselpt of the course of medicately stundly staggeds antenna far that the extrapation are, as least, there are individuous We do not manimum them followed the section of centriving species for supervising the processes and architecture of creativing and an about the section of centriving species for supervising the processes and architecture of creativing and such carries of another section of central section of creativing and the section of central section of creative the section of central section of creative the section of central section of the well for do so and horizon what we must be accomplaint. It says to that the first to attack that are considered as the section of the section than that of uppervises the section of the section than that of uppervises the section of the section than that of uppervises the section of the section than that of uppervises with a set of the section and vigor. We temperature with these sections of pages to the board of them.

Chapter XI.

THE CRIMINAL LAW

Section 1. The Problems of the Criminal Law.

The criminal law, like any other division of substantive law, consists of the propositions which the site outpress it a given time as rules of law. The propositions of the friends is well ont differ formally in any respect from the propositions of other branches of the substantive law, such as torts, property, and contracts. Propositions of law, subtle propositions of property, do not approx knowledge; they express practical judgments and declatons. We stall presently distinguish smong a number of different ways in which propositions of law can be considered. When they are viewed as descriptive propositions they cease to be propositions of law and become true, false, or probable, as matters of translated.

In terms of the content the law of orimes is most closely related to the law of torts. This sillitation is not only discarrible in these bodies of law as they now exist, but is also discovered in their common historical roots. Whether or not there is clear attional ground for the distinction between the concept of tort and the concept of crime, between civil and oriminal liability, the distinction can be made in fact by reference to clear differences between the operations of the haw of torts and of the law of crimes. In the first place, the law of torts regulates on the research between citizens, whereas the criminal law regulates the grocecution of citizens by the state. In the scond place, the law of torts provides remedies in the form of compensation, damages and restitution, whereas the existinal law gravities for the official treatment of eriminal. The behavior content of the criminal

For a discussion of the historical development of the criminal law in relation to the law of toris, see histor, through Law, and Am. ed., Ch. X; and Venegadef, Historical Juvicershines. For a discussion of the common insis of lacility is tort and criminal actions, are Historical Telecommunities. The Common Long, Lecture III, 111, 117.

law reasonbles the behavior content of the law of terts much more closely than the treatment content of the criminal law resembles those provisions of the law of damages, which define the extent of liability for terts. The law of damages determines the consequences of torts just as the treatment content of the riminal law determines the consequences content for the first case, the consequences take the form of padgments for money damages, whereas, in the second case, the consequences take the form of sentences to the various tendes of treatment. This law of torts will be found to be crucial in our letter discussion of the purpose of the criminal law and the justificiality of its treatment content.

We must distinguish among them ways in which any proposition of law can be considered.

(1) Propositions of how can be viewed as definitions. In this sense they are declarative.

(3) They can be viewed in the imperative mood as commands or prohibitions accompanied by a political sauction. It should be noted here that from this point of view the behavior content of the criminal law, or of the law of toris, is a set of commands. or prohibitions, while the treatment context of the criminal law and the law of damages are to be considered as stating the santtions.

- (3) They can be viewed as empirical propositions which describe what the courts and other official agencies of the state have done in certain cases." If these descriptive propositions are converted into generalizations they yield predictions of what will be done in the future to individuals who behave I certain ways. It should be noted that these predictions are always more or less contingent.
- Il is only as a deficition or as a command or probibition that a proposition has the statue of a rule of law. As a description or prediction, it is a preposition of fact which falls within the domain of whatever empirical ecience comprehends the administration of law. In Chapter IN our knewledge of the administration of the criminal law was arrespet. The validity of the propositions of the triminal law as descriptions of what courts and other officials do in fact, and hence their probability as predictions, was there indicated in the light of knowledge about the administration of the criminal law derived from other sources.1 We shall, therefore, ignore the descriptive interpretation in this chapter which is devoted exclusively to an analysis of the criminal law without any reference to its administration.

The declarative and imperative interpretations of propogitions of law are not, as has sometimes been supposed, inconsistant

²With respect to the interpretation of propositions of law as descriptions, som-

With respect to the interpretation of gargeordeaux of lare in department, some tool has relate offer from substancy excitances. Comment the relate in the retreet do descriptons of gas (selectal action and stan be generalized at its proid profile das others pointed and surpleyed in a particular curso.

"The point can be districted by reference in the course of preyary which is one of the erman defined and prohibited by the federator constant of the transmit law we cannot enough by a collection size of the related by reference to the course of preyary which is one of the crimes defined and prohibited by the federator constant of the transmit law we cannot enough by a collection size of the relate flow of the probability as a specification of what they will do for these purposes we need compared knowledge. We seed to have have wond praying has been consisted, how many perjusty prosecutions have been mediated, and as how many convertant have here a supposed to the consistent of the contract of the contract of the consistent of the contract of

with each other.4 As declarative, propositions ill law are the alements of legal theory; taken as a set of propositions, they provide an analysis of a body of legal concepts. As imperative, propositions III law are rules; they are regulative in two senses which must be clearly distinguished. In the first sanse, they are rules which prescribe the action of officials as officials. In the second sense, they prescribe the conduct of citizens. It is in this somes that they are commands or prohibitions. As a prescription of official action a proposition of law is addressed only to officials: as a command or prohibition a proposition of law I Imperatively addressed to all persons, including afficials. It should be noted that this distinction is in part the distinction between substantive and procedural law; the propositions of procedural law are imperative in only the first sense as prescriptions of official action, whereas the propositions of subclassive law are impossive in both of the sanses indicated. The propositions expressing the treatment content of the criminal low and the law of demages are to be construct as importatively addressed only to officials. As prescriptions of official action they constitute the sanctions necessary to enforce the commands and probibitions of the behavior content."

The problems of the criminal law are the same whether the propnations of the criminal law be construed as declarative or impertive, and theoretical problems can be distinguished here, as clawhere, from practical problems. This distinction serves also to differentiate the study from the practice of the criminal law. The juriet, as a studys, in concerned acclusively with theorytical

It is the essential defect in Assent's simplyon of the question of how, that he hads to recognize that any propositions of how in concretchic from the characters into this or recognize that any proposition of how in concretchic from the characters propositions. The characters are related to the work magnetizer propositions of these are practications. But propositions are not raised but declarate of effective and determinations which are related as-considered, they are not raised the declaratematic effective and determinations which are related as-contributed or profithense, a proposition have can seek used be caused or a profit of the contributed of profit of the contributed of the declarative sold, therefore, or, related to the other prognations.

The should be mated here that the interpretation of the proportions expressing the treatment content of the crimonal flow an americant, perturbate an interest to the question shalt as the similar out of the crimonal flow an americant, perturbate an interest to the question shalt as the similar out of the consumel flow. The rottes of its sanction exhaults the lefter of the depressed purpose of transmission. Thus, as we shall see, is producted and the purpose of treatment as quanties residually.

problems; the lawyer, the judge, the legislator and other officials, as practitionars, are concurred exclusively with practical problems.⁴

The theoretical problems of the criminal law are in part problems in jurisproducte which are common in all divisions in law. These problems can be divided into two groups. The first consists of questions which occur in that branch of jurisprudance which falls within the devenies of chiese and solition: much questions as what should be the ultimate end of criminal law, what behavior should be made criminal, what treatment should be accorded criminals. These questions require an analysis of the foundations of law. Laws are political instruments. The question what end they should serve is, therefore, a question is the rational science of politics. To ask what behavior should be made criminal and how criminals should be treated is to impaire into the justifiability of the provisions of the criminal law. These questions can be answered only by a definition of justice to be found in the series all cineses of ethics.

The second group consists of questions which can be answered by a study of the criminal is without reference to sthice and politics: much questions so what have been or what are the purposes which the criminal hav has served or does sorve, what behavior has been made criminal at different times and places and what behavior is now made criminal by the laws of a given state, what treatment has been applied to criminate at different times and places and what treatment is new applied to tham. These quantions can be assisted only by an bistorical and a comparative study of criminal law and by knowledge of the criminal law as it cates today. This isowicage, as we shall see, may be merely information about the content of the criminal law or, it proparly developed, may take the form of a rational science of criminal law.

The practical problems of the crimical law are different for different kinds of practitioners. We shall consider here only the

[&]quot;It must be understood that the same individual case, of course, be both a student and a practitioner, Judges and inglishing are object judges as well.

problems or the legislator and of the judge. These practical problems are parallel to the theoretical problems; thay differ in that they sak what shell be done instead of what should be done or what is or has liten done.

The lagislator must decide what behavior shall be made criminal and how criminals shall be treated. Were he a perfectly rational legislator, his answers to these questions would be dictated by his answers to the theoretical questions what behavior should be made criminal and how should criminals be treated. The practical problems of the judge differ from the practical problems of the legislator only because he II an administrative officer who must decide, not what kinds of behavior shall be made criminal or how criminals shall be treated, but whether particular persons have in fact behaved in ways which are prohibited, and, if so, to what modes of treatment (her shall be subjected. The indee. however. I never exclusively an administrator. He performs a larislative function to the extent that his rulings upon opertions of law can be formulated in propositions which more sharply define criminal behavior. Some theory of the criminal law must dictate both his decision of particular cases and his judicial legislation. To the extest that he is left with freedom of decision, he will, if It is a rational judge, answer the question whether particular behavior shall be made criminal only after be has determined what behavior, to general, should III made criminal.

We shall proceed in this chapter, first, to consider the theoretical problems which we have indicated and, then, to formulate the conditions of a rational solution of the process problems of the judge and the legislater. The hoste question is what and should the crusinal law serve. The asswer to this question determines in part the masser to the questions what behavior should be nade criminal and law criminals should be treated, as well as the solution of the practical problems of the judge and of the legislator.

Section 2. What Should be the Ultimate End of Crimbal Law.

Two answers have been given to this quantion. The first, in point of time, if that the puspose of the criminal law is to premers and increase the welfage of the state, which has been variously called the common good or the political good. The other is that the criminal has should never the end of energy but punlaborant as retribution for crime?

The inconsistency of these two theories can be indicated as follows: according to the fless, the provisions of the criminal law are justifiable only to the degree that they serve the common good and punishment as a mode of treatment can be justified only in this way; according to the second theory, the provisions of the criminal law are justifiable to the extent that they apportion degrees of punishment as measures of retribution for offenness of different degrees of gravity, and penishment is the only made of treatment which can be justified as if. The forecast-city can if amphasized by two differents which formulate the apposition interest the theories. (1) Esther punishments a justified as retribution or it is justified as a means to the common good by way of deterrence and reformation (2) Ewiter punishment is the only mode of treatment which is justified he arm once of it is the contract of the positive or one, is justifiable.

The regate he endocreased that we now not beth discounsing what are or what lates bean at face the draft of size contained lines, he at subtlet, when should be the explicit bean at face the draft of size contained lines, when the special root of face is a scattered of the line for the same probably are origin as took-reased; when the property of the lines of the same probably are origin as took-reased; when the property of the lines of the same part of the lines of the same part of the same par

This lates insult be resolved. If can be resolved by showing which of the two theories in the correct analysis of the chical and political considerations in the light of which the purpose of the criminal law must be determined and its provisions justified. It can thus be shown that the pushive theory is a fullacious analysis and that the non-unitive theory if correct.⁵

It is necessary to state the grounds upon which the resolution of this issue ill achieved. Ething and politics are the subject maters of rational achieves. Questions also the faul end of law and about the nature of justics can, therefore, he answared correctly or incorrectly. They are not, as is currently supposed in cartain quarters, metters of opinion. Much contemporary discarding out the vissional law is untufied to report these two opposing doctrines as if their opposition supresented an ultimate difference of opinion, which offered only a prejudicial and not a rational choice. We are not approaching the issue in this way. While there are a number of different othical doctrines which can be illustinguished in terms of authorship, hissorical locus, and tends, they are all have a common achieved matter of which they are

serving the and of pumber substance the a caption the increpancies theory, although the tions of the defermon between these two doctraces

couption, one near-required interest, including an interest of the distribution between described.

The has Scray Concerning Francis Undergramming Landay destinationally beyond the Teach and Scray Concerning Francis Undergramming Landay destinations by the second of the lateral presents of the hast of the second of the sec

attempting to present an analysis. If the field of othics were not their common subject matter, they could not be recognized as different ethical doctrines. Furthermore, their differences are of two sarts. As gasmetries differ with respect to the pastulated conditions of spatial construction, so these othical doctrines differ in terminology and in postulates. Like geometries, they are capable of being translated by the application of transformation formulae.16 Thus, their plurality is reduced. But these doctrinal differences may also represent errors or inadequacies in analysis. which can be detected and criticised in ethics as in mathematics. Approaching the issue between the two theories of the criminal law in this way, we can receive it beyond further dispute by reasonable men. To deay that errors in ethical analysis can be detected or to maintain that controversies in stilics are merely expressions of differences of coinies which are unsusceptible to rational criticism, is to be essentially unreasonable. If there is any one who holds this position, it is clear that he cannot be appealed to upon rational grounds.

We shall first present the non-positive theory of the criminal law. In the light of this doctrine, we shall be able to indicate the errors of analysis in the opposing theory. When these errors are corrected the latter position is entirely transformed. It beeams identical with the man-punitive theory. There is, thus, only one correct schicul snabysis of the criminal law.

In the first place, the estiminal law like any other body of law having a political stantion, is an instrument of the state. It is designed and administered for the make of the welfare of a political society, however such in fact it may serve contrary purposes. This conception of the function of law in general, and of the criminal law in particular, in common to such diverse thinkers as Aristotic and Thomass Accines, on the one hand, and Bestham

Notices, John Steart MEL as the comming chapters of the Unbiversaless translates the conclusions of other spherical descriptions about 100 and 100 are like the interestation that the conclusion of the spherical description of the spherical test case of the effects of this translation in to second flux stories have for spiritually stated that case of the effects of this translation in to second flux stories have for spiritually stated the special states of th

and Von Jhering, on the other.11 It must be understood that societies are differently constituted and that eccording to the differences in their constitutions, their welfare or good may depend upon different conditions. These differences are, however, not relevant to the point here being made. However the social good be defined in a given society, the laws created and enforced in that society must be intended to reside that aim."

It is in the light of this conception of the purpose of law that the futtice III laws, or less) buties, is defined. Laws are fust or right if they serve the common good; they are unjust if they are contrary to it. Whereas justice is as absolute, up law can be more than an implemente determination of fusice and in this some can be only relatively justifiable or unjustifiable.15 The idea. of justice as conferrally to the social good is thus a standard by which particular laws can be more or less tastified. We are not here concerned with the degree of justifiability of any law, but merely with the conception of justice which underlies the justification of all laws. The critical colet is that a just law is not an end in itself, but that it is a means, one among many, to achieve

11 Than Artsitrie "The little on the little of which is a single of the little of the little of their old of the little of the l

19 Thu statement must not be retermented to wom, that every law exacted in a given society does in fact express this intention. As we wind one, the flatastical intention is not the standard here indi-

into be recognized that we can know what truth is written knowing whether a proposition presented to me in true; and we can know what probability in welfout incovery whether is appear proposition in prelimble or what degree of perhadicity in the Similarity, we can know the names of justice without being able to instability of any law without however to should depress a principle of the instability of any law without however to should depress a green law is justicability.

Thus, Plato says in The Refinition, Rook V2 "We see impuring into the instance of shortest picture and into the character of the preferring just and sinto injuntion and the preferrity rungs, that we might have an islaid. We were to look at these in order that we might judge of our own languages may convering to the instance of the state of the present of the preferring that the property of the present instance is a superior of the present the present of the present that we may be included using the state of the present that the present that the present that the present that the present that the present the present that the present the present that the present the present that the present the present that the present that the present that the present that the

¹¹ Thus Aristotle "The fews in their macroscope.

the ultimate political end of the state's welfare. Justice, whether it be a virtue is burnes character or a virtue in a law, is like any other virtue, a means and not an ultimate end.

We can now turn to the answer which this theory of justice gives to the question of the funtifiability of parishment. The justifiability of the propositions expressing the treatment content of the criminal law in determined by reference to the standard of justice which Ha born indicated. Treatment which copaints in the indiction of pain upon the criminal is funtified to whitever axiont such treatment achieves the sade of deterronce and reformation which, in turn, are mount for the pretection of scolety against conduct which it deems contrary to its interacts. The infliction of pain is never justified morely on the ground that it visits retributive numberent upon the offender. Punitive retribution is not justifiable in itself, and if the inflection of pain viewed as a means to detervence or reformation and in thus justlfled. It course to be manistive retribetions. In short, there are only two justifications of passishment which can be advanced. I and of these, retribution can be shown to be untenable on a justification of punishment.

Aristotle's discussion of retaliation, walls it is not surfiely clear, distinguishes between commutative and distributive justice, which are proportional, and retaliation which is not "Thomas Aquinas justifies positive treatment only see a deservent or us a reformative. Through fair of panishment the commands and prohibitions of the law are effective and "law, even by punishing.

^{**}Edward Jenks, at low Food of English Low, p [9], towercoated a moreter of different revers of the object of paradisment uplieds have been held during the helmal developant of the English crummal leve Thous codown offers to reaspeach, which cannot be justified at all, or to retrievation, or to the utilitarian grounds of determines und reformation.

othermore use reformation.

"Thu is to be found as Ether, V, 5. What is suppose in the analysis is probably they to the fact that Anisothe in notembering Goods have on which there is no based distinction between crainmal and could include. These Veroperation, by etc., pp. 65–72, points and that Anisothe drives the Pythoparems calcuption that the root of justice is cannot be applied in commally grades, which cannot be applied in commally grades, when is analogues to it, manely, the proportions of commutative was distributioned grades, as assume or of exchange between partice to circle spits wall out as a first that the other contribution of the contribution is proportioned as all the fermioner of recolleges between partice to circle spits wall out us for the contribution grades.

lends men on to be good.1000 Capital punishment, for instance, is justified only "in so far as it is directed to the welfare of the whole community." Against expresses the position of the medieval Catholic Church which, as Mauros Smith has pointed out, conceived negalties under two heads, those inflicting punishment required for the maintenance of the social order, and those which were recognized as healing penalties (soesse medicinolos) for the purpose of reforming the criminal.14 Here, clearly, the Instiffcation of passishment, as part of the treatment content criminal law, is by reference to the intermediate ands of doterrence and reformation and the ultimate and of the social good.

The position held by Aristole, Aquines and the medieval Catholic Church to respect to the justification of punishment is the same on that advanced in the stoctaenth century by the English utilitarians and the consinental positivists.16 The analyels of law mode by Austin and Bentham is an incomplete modern Statement of the Azietotelian and Thomistic analysis. As we have seen. Bentham conceives the end of law to be the walfare of the state and his discussion of the utility of laws (as means III this end) is formally identical with Aristotle's discussion of the justifinbility of laws (as means to the same end). Justica and utility are merely different cames for the same virtue. It must follow, therefore, according to Beatham, as with Aristotle and Agrinas, that "nonishments are so many evils which are not justifiable except so for an results from them a greater sum of good." Bentham offers a detailed analysis of the factors in

¹⁶⁰⁹ etc. In This, Q 92, Art 2 In this, Agents follows Plote's duchase in the Corysta of prochested so in information

HOp at , Ha Hut, Q 44, Ast 3

¹⁸The Development of European Law, pp. 269-210.

¹⁹ The Development of European Leave, yas 200-200.
19 The Development of European Leave, the of quarter in Philo and Arastrafe and the motions conception of justice by Eughain undistreases in socily unfactor by Courts in terms, and the conception of particle by Eughain undistreases in socily unfactor by Courts in terms, and the forest particle reasons, front instairs have also recovered present engages therefore they have also recovered the gelf of law which is rigid attention, unplot to committed and probabilities and if they have represent an experience of the particle of

turms of which punishment is justified as audjustified. Throughout this long list, the justification is always the same, namely, that punishments protect society by preventing criminal behavior.²¹

The Italian and French positivate agree in general with the English utilitarians with respect to the justification of panishment. They are chiefly cancerned, however, with recommending changes in the criminal law to increase its reformative influences, by the introduction of various non-possitive methods of treatment devised for different types of oftenders. Their analysis is inadequate, in so far as they ignore are undercomplessize the problem of abterence. Punitive treatment which may not be justified as a reformative may be justified as a deterrent. The choice between reformation and deterrence must be with respect to their value as means in the normal groot.

We can now emphasize the three points which differentiate this theory of the criminal law from the punitive theory which we are about to state:

- Justice is not a final end but a means to the social good; have are justifiable to the exicut that they serve as means to this end.
- (2) By this standard of justion the justificability of any of the provisions of the behavior or treatment content ill the oriminal law must be determined. Behavior school be unde criminal by reference to its social consequences. Treatment should be divised with determine and reformation as its about, ill may, but need not, remarks in the inflictions of male.
- (3) The determination of the notial good differs according to the countitutions of different political societies. What II justishible in the behavior content of a hody of criminal law will be different according to the sature of the society in which it III hade and enforced.

⁸¹Thus, for example, Fundame although that puniture treatment can be justified on the grounds that it statedow-due vanishings enterested of the proplace and therefore presents arises which might otherwise be committed as one of regionate. Beatlann, it plouds to actual, in primarily interested in the determine effects of punishment.

The conception of the criminal law as an instrument of retributter justice" is based upon the cities doctrines of Kant and Herel" and is developed in their theories of right. Kant's ethical dectrine has much in common with the conceptions of the Roman stoles and, as we shall see, it comining the stoles! error of treating virtue as a final cost. But Green and other Roman writers on law who were also influenced by state philosophy never devaloped a conception of the criminal law as a purely positive device. in the service of retributive justice.

Although the Kanties and Hegelies positions are differently argued, their major conclusions are the same." Hant holds that "judicial punishment can never be administered merely as a manns for promotion a good society, but must in all cases he imposed only because the individual on whom it. Il inflicted has committed a crime." For "eac man casht acres to be dealt with merely as a means subservient to the purpose of another, . . .

²⁰For a discussion of Stransfer and Kehler, followers of East and Hagel, no Nockeep's Leve and Feptas, Ca. UV. Semantier and Epither ognes in the notice that parameters 1 year to review to the A. of seq.)

parasilations of your as receivations (p. 45 or asp). Write madem, Midwell Parasilation of the madem, Midwell and Martin characteristics and the madem of the madem of the madem of the contraction of the property of the madem. The beginning of programs experty contribution, that as, "has eye for as eye, a rows him a rows," has been a like "The applicance of the provision of Kantl and Flagel, is their heterophic in justified property of the support of the of the supp

PFor Cicers's correspond of pinting in a many in the good of the sixta (asthinched publicae), are De Ro Publica, Book S, pp. 32-41.

ren personari), see LM EN Farment, 1998. It, 500 Med.

**The parties theory as beind the volger varieties, as Brisiley groads such and also the decirate developed by the first press floresses globosopheres, Kant and Hepel, "It decirate the see that the season of provinces and ground the state of the belief in the actionary conservation of provinces and groad. Prophenous the provinces of provinces are deposite to the belief in the actionary conservation of provinces and groad. Prophenous or provinces are the provinces of provinces of the season whatever then because it is meanted by wrong, if in a group immortality, a crying injurities, and accommission of the provinces of the parties of the provinces of the pro

The penal law is a categorical imperative; and wee to him who creeps through the persentine windless of utilitarianism to discover some custification which, by its promise of adventage, should free the criminal from the penalty, or even from any degree thereof. . . . Justice would came to be justice, if it were bartered away for any consideration whatever". Similarly, Hegel points out that punishment ill absolutely just. He argues against the conception of punishment as preventive, deterrent or reformatory, an experienal. Punishment most not be considared as a good in the sense of being a means to some other and. His position briefly is that wrong being the negation of right. punishment is a normiton of that negation, or just retribution. Retribution, he mays, "to the inner connection and identity of two things which is outward appearance and in external reality are different." It is thus that the essential equality of crime and punishment # supposedly cotablished. This equality constitutes retributive justice, of which paulakeeset I an indisnansable element.

The Kantian and Hereiten positions can be summarized as follows:

- (1) The end of the criminal haw in nunktive retribution.
- (2) Punitive retribution to concattally jost and the justice of nunitive retribution is shoringe, that is, it is not relative in mny way to the constitution of any given society.
- (3) Justice is an ultimate end. It is in the cought for its own sake and without retard to the social good.

[&]quot;Fite Science of Night, Fart 2, Sect 49, E. Nigut Serbicrisorie transforms for Informat: ritio par Informs." The right of exhauston, be 1979, "It the only principle which in regulations a propriet ownt, so shoughouther from energy principle reduction to the principle of the pri

Whee his Philosophy of Build, section 97-104.

(4) Only behavior which is mutally wrong should be made criminal, and punishment is the only proper mode of treatment.

The errors in this analysis can be simply polated out." In the first place. Nunt and Herel fail to recognize that laws are political instruments and serve a political end. If political exnediezev should require laws which would fail to do retributive justice, they would hold expedient legislation to be immoral, This II a false separation of the fields of legislating and morality 31 In the second place, the conception of justice as an end in linelf H a failure to recognize that all virtues are menor H happiness as the ultimate good. While, as Aristotic points out in the Ethics (1, 7), virtues may be sought for their own soke, they are also sought for the sake of happiness, whereas happiness is sought only for itself, happiness, and virtue, as the final good. In the third place, the conception of recubation as retributive justice | based upon a false analogy with the commutative or corrective funtion of the civil law. Pinetly, the concention of the criminal law as the instrument of retributive justice cannot comprehend the distinction between erimes which are male prohibits and

For enotice aspect of Kant's arguminum of the mount and solution, see Stammber's ductassion of the relations of purpose in the company good = The theory of purious, New York, The Manuscript Co., 1925, p. 1516.

POThe fallacies in the Kannan gamman due to die econocter of retributive justice with responsibility and four well are discussed in the cent section. See p. 357, in 46, series.

In 46, styles

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trimes which are made in on. These has two points require some alshoration.

Commutative or remaifed justice detectains the consequences of viril liability. Commutative justice was first formulated by Aristoile as the arithmetical proportion or equality which must obtain between the damage done to, or injury suffered by, the plaintiff and the compensation or relief given to the plaintiff. Commutative justice then commiss in the compensations and other remedies which the civil law affords injured or aggrieved parties. If always provides, is some nonness, a material restitution to the injured party. Civil justice is commutative in the sense that it operates to equalise the inequalities which the plaintiff charges the defendant with having produced. If retribution mean anothing more than a material remedy which is proportional to an injury suffered, then the civil law can property be called an instrument of retribution uniquery material or retribution uniquery material or retribution uniquery materials.

But the criminal law can never be viewed as an instrument of retributive quetice in this sease. The criminal law is not remedial or commutative. The supposition that the equation of crims and panishment, the properties between the gravity of the offense and the severity of the punishment, is retributive justice, is the result of a confusion of retribution in the sense of retaliation with the idea of remedial or commutative funties. To think of ariminal fustice as retributive one must think of punishment as a recompense to the state for the injury which it has suffered at the hands of the criminal. This is clearly a false studiesty. The punishment of an offender is not a recompense to the state, not as a mother of fact in it a recompense to any critises. who may have reffered injury at the hands of the criminal. Punishment, therefore, cumot be justified as an act of retribution in the same in which the neverent of demages is justified as a civil remady. In short, either retributive funder means the

Pl'De formule d' rumifiel Junice le alles séried às des faillowing votes : jurice le giring every sons les des. According to the pumière discus, possisionent can be just culy it à le held that à le des a product de la comment de consumere pusies, u autien de la light de pursus.

name as commutative justice, in which case it applies in civil but not in criminal actions, or restribution means retailation and the phrase "retributive justice" is self-contradictory since retaliation cannot be justified.³⁴

The other point to be claborated has to do with the distinction between main probabits and male in so." The Kantian and Hegellan point of view denies that fruites is relative to the cature of a political society or that the law is justifiable only as an instrument for achieving the social good, which is differently determined in different societies. It is, therefore, impossible from this point of view to justify the punishment of acts which are not qualified by moral taroitude. But as Holmes points out, a malum prohibitum in just as much a crime as a malum in sa. If there is any general ground for punishment, it must apply in one case as well as in the other." But this is impossible, according to the punitive theory, siece only morei wrongs merit punishment as morel ratribution. The view of the criminal law as the instrumunt of retributive funtice is incareble of comprehending male prohibite as crimes. Since such wreass are wrongs only because prohibited, there can be no justice in the nextshment of the doors of such wrongs except on the theory that these acts are probibited. because they are deemed to be contrary to the interests of the state. But this is 52 justify punishment on the ground of the social interests to be protected. Panishment is no loans just In itself.

We can, therefore, conclude with Helmes that "there can be no case in which the lawracher makes curtain conduct criminal without his thereby showing a wish and purpose to prevent that

Wile is substituted to more that an early Bluman has oriented actions were inflatent tanguardable from ovel actions so the some that measurery components as well the deal recordy for migraps influence (see Mission, e. e.d., yp. 328-339). It should also be noted that proposals have been assets reconstitute for the actionation of civil remotions to country. As Beliman points on action of the criminal points not, there can be no possible tong for possiblenced as patrionized of the criminal points not, there can be no possible who has reflected because of his crimic.

ATIVE deall return to a failur documine of this detention. It is sufficient before to post out that saids a rehalition on colors which affire executions to the smoothly-part of different societies. What is a major problems in our stoken, only not be so in toutier.

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conduct. Prevention would accordingly seem to be the first and only purpose of punishment. The couract analysis of the and of the criminal law and of the imitifiability of its behavior and treatment content is that first given in the cthical and political writings ill Aristotle and Phoness Aquinas, and reported in the works of modern skiltshrians and positivists. Punishment cannot be justified as retributive, nor can retribution properly be the ultimate end of the criminal law. The and of the criminal law. The and of the criminal law. In the common good, the welfare of a political society determined, of course, by reference to its constitution. Furthermore can be justified only as an intermediate means to the solar of deterrence and reformation which, in turn, are means for increasing and preserving the welfare of society; the infliction of pain may be only see of many finds of treatment which serve this owners.

Santier, J. What Rebusier Chrold in Made Criminal.

The behavior content of the criminal law is expressed in all those propositions which define specific crimes in terms of their constituent elements. These definitive propositions can also be read as evaluations. Ruman behavior is always an element of crime and these propositions can be interpreted as avaluating cartain types of homes behavior as criminal.

The question what behavior should be made criminal is a question as to the jestifishility of the definitions of particular crimes which comparise the behavior content of any body of criminal law. The snewer to this question depends upon two factors:
(1) the definition of crime and (2) the sitinate end which the criminal law should serve. These two factors are not independent, since the definition of crime is itself determined by the end in the criminal law. The definition of crime iii insufficient to decide the unsertion what behavior absolute he made criminal.

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 Battistic and Buggless regimes
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The proper end of the criminal law being the welfare of the state, only behavior which is detrimental to that welfare should be made criminal. This statement must be understood negatively to mean that no behavior which is not detrimental to the social good should be made criminal. It does not follow that all behavior which is socially deleterious should be made criminal. The definition of crime as behavior which is contrary to the social good in therefore, insufficient to determine what behavior should he made oriminal. Laws which make certain types of behavior original may be more undesirable in their secial consequences than the behavior itself. In many cases it may # impossible to determine the balance of advantage and disadvantage, but in every case the conception of the criminal law on an instrumentality for achieving the social good requires a consideration not only of the consequences of particular behavior, but also of consequences of the laws which must be employed to combat them." For the sake of charity, let us separate these two factors which enter into the determination of the behavior content of the criminal law. Let us consider, first, the kinds of behavior which it I proper to make criminal, and then turn to the disadvantages which may attend making certain types of behavior criminal.

The most important distinction to be made is between behavior which is undestrable in any political society and behavior which is undestrable only by reference to the special constitution III a particular society. This is the Arisatelian distinction between acts which are naturally unjust and acts which are najust only because the smeatments of a given state prohibit them. By acts naturally unjust is meant behavior which is contrary to the welfare of any political society; by acts legally or conventionally un-

^{**}Best/uss/s decument of the principles of a genal code in his Theory of Lap. intens gives the most detailed expansion of this e most observe proposed in criminal and the days

[&]quot;Million," V, "I That he writes "Old political justice part is natural, such legal;

Million," V, "I That he writes "Old political justice part is natural, such legal;

Million and the such as the same time force and few vot can be propoled the state of the such and the same time force and such vot can be propoled that the such as the such

just is meant behavior which is determined to be undestrable by reference to the constitution of a particular political receiving filters at take constitution of a particular political receiving filters at take constitution distributed by the contrary to the welfare of one state may not be no considered in another state. It should be noted, furtherwese, that atthough cartain types of behavior are nativersully undestrable, the precise determination of what constitutes such behavior and differ from society to society. All have are conventional, and in this same are inadequate expressions of justice. Blueder should be prohibited irrespective of the constitution of a particular society, but the determination of what kinds of benicles constitute auxiliar is always arbitrary to some degree and a matter of convantion.

WA disor discussion of the relations between the queens foregains of right and justices and particular elementageous which are small as specified in the six to be turned in Wherefold & Elements of Monobley (Back). I. Ch. 5. "It has been risted that moral realise stom the expressed by reference to more raphre; had that they hence many objects one wifer a control contained by the six to the product of the control of the cont

They to the other hand, we have shown that me man and the start refers to continuous.

They to the other hand, we have shown that moral refers to cat measured by the measurement to the action of man to man, and that they result assume that they result assume that they result assume that they result assume that they are the start of the measurement of man is the form that they are the start of the measurement of the measurement to a security of the start of

makin, universal truths.
"How are these two opposite doctribes to be reconciled?

"They are from reconcised. The comprisons of the fundamental rights of tests or six retained, and follow necessarily from the served instance of tests rights are diverse and airs decreased by the laws of each right. The comprison of personal under, sometive, property, contrast, family, colds retrysher; told man extract he conserved to exist as a course being, in a social condition, without them. The rinks by which personal solvier, country, property, occurred, testines, are maintained and protected, are influence of efficiently communities, and with refer exceeded and instructed as of are as they are engowed as treess of tests conceptions in their spaces, farme; it is always our duty to request the personal solicity, the property, the contracts, the family told, of efform. But if we go that those details of law by which these conceptions was in different contracts, the family told, of efform. But if we go that those details of law by which these conceptions were in different consumints of Geroutly defined, the

The Aristotellan distinction is unfortunately distorted in the distinction between smalls in as and smalls prohibits and in the further extension of that distinction to differentiate felonies and misdemeaners. The connotation of the phrase scale in as involves more than the Aristotellan conception of acts which are wrong naturally. Male in so are thought to be acts which are wrong in themselves, wrong intrinsically, in the scane that they are qualified by moral turnitude, whereas male probibits are supposed to be wrong only because of legal synhibition." This misses the amellent point in the Aristotelius distinction, which is the inproduction of constitutional differences between states as the beain for their different probibitions and the recognition of the noming structure of all notitical societies as the basis for their common prohibitions." furthermore, it ignores the Aristotalian point that all crimes are acts legally determined to be criminal and hence are arbitrarily or conventionally defined."

the frame of the morth as he present and so exceive he may set, because when so placked, is one place they are, and a another they are only the property of bury on whose field they grow. The process, Do not seed, is our-count, the law, To plack at 2 of cless, pages at 1.

No 20 cross, 18 persons.

Clear might changeve encle became of the examples which Wherwall grows and yet be forced to accept the analyses. Whereast's another follows, Georgian's Gentleys Control to Improve the International Cycle De Town Spills or Parts, Unstablied by Whereast Cambridge The University Prime, 1855 A. et 1, v. (b, 1) Grotoms in form, andere do an Analogue Cambridge Spills, Schown Arabonic end than point.

4/Blackstone formsciams the model and of the common lave with respect to this dis-term. It is the hoped on the Introduction to the Commentaries, Blackstone of distinction between walls is as and made probabile all the acres like crasses and crasses probabiled by stallers

of the second temperated are not notestantly crimes, destrictly waveled temperate. Arranac makes this

in district to the questions whether it belongs to busina her to repress all water Aquation stays that humans from rightly allows some ware, by not repressing them. Aquation stays that humans from rightly allows some ware, by not repressing them, are not perfect as well as the provide the stay of the provided and the stay of the provided for the majority is advisor, and develop force into the contract which it is provided for the majority is advisor, and develop force that use to the hort of others, without the production of the stay of the stay of the provided for the provided force of the provided stay of the starting of the stay of the provided stay of the starting of the stay of the provided stay of the starting of the stay of the stay

*See in this connection Malarmana, Emfadering in the Philamphia des Strafrechts, pp. 136-212. The point is marily dissipated by the changes which were made in the

In other words, every act which is made criminal, whether by common law or by statute, whether a felony or a mindameanor. should be an act which is determined to be socially undesirable either by reference to the nature of easy political society or to the constitution of a particular suclety. In some cases this determinetion can be made without a sindy of the social consequences of behavior. This is usually true of behavior which is undesirable in Hi political societies. Our cummes experience and knowledge may instruct us that such belavior should be prohibited for the sake of the welfare of the state. Our common experience and imoviedge may not, however, suffice to define the acts to be prohibited with the necessary precision. In other cases, it may be nacessary to undertake empirical investigations of the consequenous of certain types of behavior, in order to determine whether they are socially undesirable and in order to define the acts which should be made criminal. Its every case it is necesmany to define the social good in the light of an analysis of the constitutional determinations of a particular political society. The question what behavior should be made criminal in therefore, in part answerable by rational analysis, common knowledge, empirical investigation, and an evaluation of the consequences of behavior in terms of some definition of the welfare of the state.41

We can now turn to the other factor which determines what behavior should be made ariminal. The chief considerations have are, dust, the enforcessfully of a law; second, the effects of a law; and, third, the existence of other means to pretect society against the undestrable behavior. It is clear that laws which cannot be suffered abould not be sende; honce behavior, the legal prohibition of which exmoot be enforced, single not be prohibited legally.

Remain and Italian orininal mains with the advect of communicative for faccine, and by a comparison of Austrian's under with those. For controls, the main emphasis the new Repulsa codes a ways the systemic of certain particular and extensing a set never the production and decrement or remain of the Russian State. In the American codes, political course affecting the paint are, with the production of foreign productly but and of most into agenticance.

[&]quot;Bentham's densation of preventive painting fluctures that our curves are supported by the support of framework as to probable plainters that their party. To probbit the carrying of framework up to probable plainters which in itself caused to occured postility underviously that it is because that the conveying of framework as a statistic of their use in auxility understand mayer; haven the particularity of the probables.

If the social consequences of the enforcement of a law are these selves undestrable, in far one remain or another, it may be difficult to determine whether the ledwrine in question should be prohibited. The decision may root in part upon the balance of the disadvantages involved or upon the availability of other than legal means IT preventing the unsalemble behavior. Empirical investigation may be needed to decide questions of this nort. In some cases it may be impossible to suppose the question except by the haunt of grassion or opinious.

The foregoing discussion can now be briefly summarised. The criteria to be employed in enswering the question what behavior should be made criminal are perfectly clear in the light of the conception of the oriminal law as a means to the social good, but the application of these criteria is not uniformly clear and unambiguous. In pette cases rational applysis and empirical knowledge may provide a determination of the behavior to be made criminal and render meking it criminal highly justifiable. In other cases rational analysis may be inedequate and ampirical knowledge insufficient to determine the behavior to be made criminal, or to justify its local prohibition except as a matter of opinion, the contrary of which is also temphie. In short, our understanding of criminal justice does not by itself indicate the justifiability or unjustifiability of particular laws. Every particular law is a conventional and arbitrary determination of justice and we can only make and evaluate this determination in the light of knowledge which is not contained in the definition of justice itself. To know that the criminal law must serve the common good is to know that the criminal law should probibit politically undestrable behavior whenever such prohibitions are themselves not more undestrable, but this ft not to know what particular acts are socially undestrable or when legal prohibitions are less disadvantageous than the acts which they seek to prevent.

A number of negative conclusions can be drawn from this analysis of the behavior content of the criminal law. As it exists,

Other positions connected the facilities among which biserate this

the criminal law is devised to serve the inconsistent ends of social welfare and positive retribution. Due to this inconsistency ill its actual ends, the behavior consust of the criminal law ill confused, particularly with respect to the classification and gradation of ofteness and with respect to the concepts of responsibility and calability.

The distinction between felicules and misdementors is based in part on the distinction between male is so and eacle prohibits. and in part on the distinction between common law crimes and statutory crimer But seither of these distinctions justifies the gradation of offenses according to their gravity. Such gradations can be institled only by reference to the end of retributive justice. which is supposed to require that the severity of the numbersent be proportional to the gravity of the offense." But if, III we have seen, criminal justice should not be reteilestive fustice, it follows that the purpose of the treatment of offenders is not retaliation for the offense committed and, hence, that modes of treatment should be determined without reference to the nature of the offense. The distinction between felouise and misdemanners III symptometic of the vanisive character of the existing criminal law. With the exception already noted, there is no need I a non-bunitive evetem for not gradation or classification of offenses according to their gravity. Thus, the subdivision of such crimes as marder and largest late a number of offenses differing to their gravity has no significance except in relation

[&]quot;There is one possible enterptaint to than entersecrit As Blacketons potent out,
(Commentagener, Byock, 174, Cb. 17), of our uniquest is not deter crimical behavior, and it
we believe that pushformed in a deterrent such than the greater in swearty the greater
is its deterrent subcase, and if we believe that it is notice important for the storal
in the deterrent subcase, and if we believe that it is notice important for the storal
capelless to notice offence scoreding in the low gravity, be that pursuationed can be
apportuned in severity in order to sudcave the distance deterrent effects. But it must
be resembled that that is incomplete an a pushformation for the apportunement of the
everyorized that that is incomplete as a qualification for the apportunement of the
everyory of probabilisation to the growing of utilizates, search the reformative effects or
results and the subcomplete B is using the same offering capout to the social grood
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to retribution. If the end of the criminal law he the social good, there can be no justification" for any elamification or subdivision of affenses in order to apportion to them punishments differing in asserts."

The concent of respondbility is another symptom of the punjtive character of the existing criminal law. The distinction between responsible and irresponsible individuals | significant only in the light of the conception of the criminal law as an attempt to punish them for their sine." In this conception a crime must be an act of free will, and only a free moral agent can justly be beld criminally responsible for his acts. But if the criminal law he properly conceived, a crime can be defined without any reference to the concept of responsibility. There is then no used for differentiation between the respondible and the irresponsible, between individuals upon whom it is just to visit retributive punishment and ladivaluate whose it is unjust to nunish. The justifigbility of transport is determined by reference to its effects. and not by reference to the free will of a moral agent. The treatment of lumine offenders, for example, should be determined by the effects of different kinds of treatment upon such individuals. The only justification for according different treatment to Insone and some offunders must rest upon the effects of the treatment

^{4/}Encape the passible problement in terms of discretons, suggested by Blackstons, to which we have referred

These means are streams and servicingly streams in Blockmone's discussion of the father of cranss and their passolement Consequences, Book (V, Ca. 1). Although Endograms were the law is a surface, when the serveres proper in a broadpring proper Blockmone of the State of the Sta

the offence and the treatment of the oldender of providing and the first interest of providing and the conception of the free curves squeet and has enquirouslinkly. As Studies so clearly shows (op et p. 25, st rsy), Temperaturability and fashing to quantization are convertible When the former is measuragious, see as the interest providing and providing the five of the providing and the two deep the factors of providings are free mortal agents, providing the former of the five mortal agents. The providing such as the former of the five mortal agents and former of the five mortal agents. The five five mortal agents are former of the five mortal agents, providing the five mortal agents, providing the five five five five five mortal agents.

and not upon the chariffestion of the insure or morally irresponafble.

According to the smalthy theory, it is generally regarded as an just to punish even the responsible individual naless he is also enlookle, that is, in some way at fault." It is majust to punish him if his act or its results were accidental or factuitous. The definition of culpability than rasis upon the distinction between accidental behavior, on the our hand, and intentional or negligent behavior, on the other," Ill would manifestly be abound to prohibit accidents, whatever their consequences, or to attempt by munishment or other means of treatment to prevent them; and to this extent culpability would men to be an essential element of criminal behavior to a non-positive as well as in a punitive system. But in a non-positive system it would be unnecessary to simplay the concept of colpability is order to determine how pereraly to punish effendors. In a non-panitive system, such disfinctions as these between intentional and negligant conduct. between conduct which is intentional in the come that its harm,

d'Encigh for pairty offenses Militaryon and degligence to the communicat dre terms of est, and they should not be read with their popular meanings. Halmen has made dute technical meaning, and happe the spream of carpabate, very other. In The Common Lore, pp. 78-78, the

and hence the specim of estipalistic, vary close. In The Common Law, pp 79-70, he wright:

"All sees are soldlifered gas as.
"In the deviatorizatic type of substanting course some one contained and in the state of the sees of the sees

forestern. "In some cases, serials surfere of initial, in the consument meaning of those words, is no element in crimes. But it will be found that, when it is not it is became the serial when does maintained by indicated by indicated by indicated the serial country in the control of the serial country in the country of the serial country of the country of the serial country of the country of the

ful consequences were netwally foresten and conduct which is intentional only in the sease that it should have been forescenthat it would probably have harmful observances, and between gross negligence and some lesser degrae of negligence, can be significant only it it is discovered that the social welfare requires that offeaders them differentiated be traced different. These distinctions are merely some among many which it may be destrable to make in order to classify effectives for the purpose of treating them with softlens affect.

The question what behavior should be made criminal is thus naverable without reference to the question how should effendars be treated. The most important consequence of the Independence of these two problems is the elimination from the behavior content of the criminal haw of the panel gradation of offenses and the concept of resonabilities.

Section 4. How Ehrald Crimbook in Treated.

The provisions of the treatment content of the criminal law are anymented in propositions which define modes of treatment.²⁸ Different modes of treatment are prescribed as the legal consequences to be attached to different crimes. Any attempt to correlate modes of treatment with types and grades of offenses is incommistant with the conception of the criminal law as preventive rather than reiributive. Parthermore, it the modes of treatment include non-punitive procedures, that is inconsistent with the idea of reiribution, which requires that treatment be scalarically punitive.

We shall, therefore, consider the problem of the treatment of offenders independently of the nature and classification of offenders. Whatever efficacy the criminal law may possess as a device to prevent trime, must result from the application of the modes of treatment which it presention to those who commit crimes. It is in terms of field preventive efficacy that modes of treatment should be determined and not by reference to the fulue.

 $[\]Phi The$ relation between the treatment equival of the column law and the equivalent two code has been preciously discussed in Chapter IX.

notion that treatment must be retributive in order to be justifiable. Ill short, the standard of justice by which propositions expressing the behavior content of the criminal law can be justified, also provides the criticals for the justification of the provisions of its treatment content. The question how should offenders be treated thus because the question what modes of treatment are justifiable.

A mode of treatment is justified if II serves the end of the welfare of the state. That the prevention of crime is a mean if this end II unquestionable, since crime is deemed iii be notically undestrable behavior. But the prevention of crime can be accompilated in a number of different ways. Potential criminals can be detered from committing crimes; convicted criminals can be incapacitated or reformed, in which case they, too, are prevented from committing crimes. If one and the same mode of treatment were sixtyn squally effective, both as a descriminal and as a reformative, the problem of determining iii modes of treatment would be simply a specific of the relative efficacy of different procedures as preventices. Unfertunately, we do not know this to be the case and have grounds for supposing that it is probably not the case, and that determine and reformation are in opposition to one another.

Before we consider this problem let us deal with incapacitation in a means of preventing retime. We know what modes of treatment are affections with respect to incapacitation with almost particut certainty. The first question is whether these modes of treatment operate to deter potential offenders and it so, to what degree. While we do not passess definite empirical evidence upon which is here an answer to this question, it is highly probable that they have some deterrent effect. The wornd question is what offenders should be treated in this way, that is, what

Withchestone, ap est, Boule IV, Ch I, unders due westyrle. He postus out there the one and preventions fulnet creates can be efficient "fulnet by the assessment of the off-order, historial" or "the determine of the off-order, historial" or "the determine of the fulnet by the cample from off-order in the like wee," as "by dispressing the party substrate of the power to do future matchet?"

⁴² There can be no question elect execution or file negativement as membridizing proodures. Withdoor department in effective in this respect is, bureous, questionable, but the question read and be immegrated for the propagate of the present databasion.

type of offenders is it justifiable to incorporation. In terms of the social good, it must be answered that it if justifiable to incapacitate only incorrigible offenders. To ressore from society an individual who can be reclaimed as a social agent is injurious to the welfare of society. While this is clear, the decermination of incorrigibility is not clear. Moreover, it is difficult to decide what risks society should take, that is, whether it should take the chance of incapacitating individuals who are not incorrigible rather than the chance of returning incarrigibles to society. The criteria in terms of which isospectation is justifiable, can be stated; the clear of effenders whom it is justifiable, can be interested as incorrigible; but the determination of the justifiability of applying this mode of transment to particular individuals a pendered difficult and degrations to the extent that incorpolititity all filters it to determine.

It should be noted that incapacitation is always accomplished by punitive modes of treatment, that is, modes which result in the infliction of pairs. But II must be resembared that punishment, in the same of infliction of pairs, is not here punitively directed; that is, inespeciation, however accomplished, is not some amount of retribution proportional III the offence. This is been illustrated in the laws providing for the incapacitation of fourth offenders. Life imprisonment could not be justified as certibution for a trivial fourth offence; if in justifiable, however, as a means for protecting society from an individual whose recidivism III taken as a size III incorrigibility.

Let us now turn to the deterrence of potential offenders and the reformation of actual offenders as ends to be achieved by the treatment content of the criminal law. If any mode of treatment, whether pushiive or non-pushiive, is known to be effectious both as a deterrent such as a reformative, there can be no question as to its justifishibity, but if, on the other hand, it were known that a given mode of treatment were effections as a deterrent, but not as a reformative, or conveniely, it would be necessary to choose between deterrence and reformation as means is the social good, or between specific amounts of deterrones and of reformation. Il order to justify the employment of that made of treatment. It must be remembered, farthursome, that deterrence II the infinence which a mode of treatment exerts upon the entire population, whereas reformation in the influence which a mode of treatment exerts only upon that class of affendors to whom H is applied. The justificability of a mode of treatment as a delerrent in therefore. If he determined differently and separately from its justifiability as a reformative. The difficulty resulting from the separation of deterrence and reformation in the instification of modes of treatment may be an insuperable one. Thus, for instance, it may be discovered that the indiction of pain is more effective as a deterrent then non-negative modes of treatment and that the greater the pain inflicted the greater the deterrence. may also be discovered that treatment is more effective in the reformation of all classes of offenders, or of most classes of offenders, to the extent that it is non-punitive. Were this known, it would be necessary to decide whether detervence or reformation is the more effective means to the common good, or whether some compromise can be made between these appoint means. Questions of this sort may be forever ananewered and our deter mination of the justifiable modes of treating offenders may forever rost anda guesses or conjectures.

Many discussions of the treatment content of the criminal law, particularly of punitive as against non-punitive modes of treatment, reach estay conclusions because of an tandequate formulation of the problem. Thus, if early detervence is considered, panicive treatment can injustified on the probability that fear of pain exerts a retarization influence. If reformedion, on the other hand, be alone countified, non-punitive methods of treatment tax offered as justifiable on the probability that offenders can its educated and trained. Each of these proposals faces only half the problem. Even if both of these proposals faces only half the problem. Even if both of these probabilities were supported by clear empirical evidence, which, as we have seen, is not the case, it would be measurery to determine the complemative social

benefits of determine and reformation, or at least an optimal compromise between them."

It is clear that we do not at present possess account knowledge to datermine the justifishility of any sude of treatment in terms of its reformative as its determine allicacy. Unlike the behavior content of the criminal law, which can be determined in part by rational analysis and common knowledge and experience, the treatment content requires knowledge of a cort that we can not possess without extensive research. Research has so far falled in provide as with this knowledge.

The criterie by which the justifiability of modes of treatment can be determined, entail a number of negative conclusions. In the first place, the argument which is advanced against the individualisation of treatment as unjust is clearly invalid. By the individualization of treatment is meant the employment of modes of treatment, whether punitive or son-ponitive, which must be differently contrived to be suitable as reformatives to different types of effenders. It is objected that the individualization of treatment, by adepting the treatment to the offender rather than to the offence, is neject on two grounds; first, that it fails to maintain the proportion between the gravity of the offense and the severity of the punishment; and, second, that the law is not quiformly administered since individuals committing the same offence may be differently treated, II they are of different types, or individuals committing different offenses may be similarly treated, if ther are of the same type. We can dismiss the first objection - grounded in the fallacions notion of rattlbutive justice. While the account objection in correct in no far as it identifies a just with a uniform administration of law, uniformity can be achieved with respect to types of offenders as

¹⁹Thm, in the Theory of Legulations, Renthant theorems treatment about states and surveys with respect to the festivent of first and, financial consider that Platfore market are the property of the first and financial construction with platfore market conserved under the respect to its reference between the checks and become are conserved only with the sustaining of varyous hands of non-possitive treasment for deferent kends of offenders. The predicted timbers and bluedations, which is producedly infiltented by Agelman, through Holestor and Greenes, influence and the conservation of the control of t

well as with respect to kinds of offenses; that is, individualisation of treatment does not meta what the words say, namely, that years individual is a unique case to be differently treated, but rather that individuals can be classified and that treatment should be adapted to types of individuals native than to kinds of offenses. Unforwaity would be necessed in so for as all offenders of a certain type were treated similarly, regardless of the naines of their offenses. It means be understood that we are not long qualifying the program of individualisation of treatment. We do not know what the determined effects of that procedure would be now, as a matter of fact, to what excess it would reform offenders. We are merely assessing objectious which have invalidly hild this plan to be clearly topins.

In the second place, it has been incorrectly supposed that if the end of the original law is not retributive, its treatment content should be entirely non-positive. White it is true that a criminal law, designed to do retributive justice, must be antirely nunltive, it is not true that a criminal low destaned to protect the welfare of the state most be entirely non-nunitive. The justifighlity of a mode of treatment II based upon the same criteria. whether it be positive or non-positive.44 Finally, it must be pointed out that although we do not et present possess the knowladre recuisite is a proper determination of the treatment of offendars with a view to the social welfare, we cannot evade the responsibility which the conception of the criminal law, as a manns to deterrence and referencies, places uses us in this connection. We cannot avoid the problem of determining what modes of treatment are funtifiable, by recourse to the erroncous notion of retributive faction. If in our present state of imprents we are compalled to hum the treatment provisions of the criminal haw upon conjectures, we should at least recognize that we do not

Why shall not docume the pronount that very sentence throat be indetermined, in order that trustment by superly submits. Let you can be if you the protection of off-contrast against admit between shapes are us system to which a whichly indeterminate sentence pround. The surfaces are only supplicant on the proposition that if is justiciable in minimals of treatment with a were to achieving auton. The justiciation us, of a knowledge which would make it practice.

at present knew that any of these previsions is justified. If formulating the treatment content of the criminal law is a work of trial and error, we should recognise it as such instead of defending its propositions by prejudices, undousded opinions, or such erroneous conceptions as that of retributive justice. We may never be able to determine justificable ways of treating offenders. But that abould not lead us to ignore the anture of justice.

Section 5. Enowledge of the Criminal Law.

The theoretical questions which have been discussed in the preceding sections can be answered without reference to the snormant of any anishing body of criminal law. To say what should be the end of the criminal law requires one to go into the fields of chics and politics; to may what behavior should be made criminal and how exhausts about the treated requires; in addition to knowledge of ethics and politics, knowledge which has not yet been made available by the so-called social sciences and by arminology, in particular. But other theoretical questions can asked about the criminal law, to answer which only knowledge of the criminal law is needed. These questions are all concerned either with the present or with the past content of a given body of criminal law or with the contents of two or wore bodies of criminal law. The knowledge which answers these questions constitutes the history and the science of criminal law.

It is not our purpose here to present the certifies ill the history or of the science of criminal law. We wish morely to indicate the nature of these fields of study and to evaluate work which has been done in them.

A history of the criminal law must he knowledge of its devarious provisions; it must afford a chromological surrangement of its various provisions; it must, however, he more than merely a recital of the date, place and accession of rules of law; it must provide a description of the chromotomers which attended changes in the criminal law and an account of the effects of these changes to the administration. While we have short historical sketches of the primitive arigins of criminal law in Western Europe, we do not if present possess an adequate historical account of Anglo-American criminal law.⁸⁶

A comparative study of the criminal law of different countries is another type of approach to criminal law. It provides knowledge of the similarities and differences of various criminal codes. Against the background of these comparisons the poculiarity of any given body of crimina) law is revealed. The importance of this revelation is that it makes clear the eristrary and conventiqual determinations which are necessarily present but upp be known only through such comparisons. The distinction between mais in se and male prohibits can often be made only in the light of a comparative study of the criminal codes of civilised untions. The provincial character of mele probibits is axhibited as a product of local prejudices. Furthermore, in the absence of knowledge which can properly determine what behavior should he made criminal and how criminals should be treated, a comparative study of various criminal codes affords knowledge of the ways in which different countries have undertaken legislation by trial and error. Incichie thee salaed may be smalul in suide and encourage experimental larislation, if trial and error can be so dismided.

The Angle-American Bismature of the criminal law is singularly lacking in comparative parispreduces. This is in marked construct to the literature of the criminal law of the various construct of continuous Derroos.²⁰

We turn, therefore, to an examination of our knowledge of our own criminal law so it presently exists. This knowledge may take two forms. It may be purely information or it may be devaloped into a rational science of the criminal law. If our knowlader condute of no more than is contained in some compilation

the first rolling of Von Hopet's Dentiralist Simpsold. Comment Comment Low on Market is solding in Dentiral which symmetries as adopted by series or thorough

was the monmocatal comparative study of the creamed law enteriors in Verglandenda Durytellung day destination and auditmocation, Single-citic, which is in 15 volumes.

of the rules of the criminal law it is information, the validity of which can be estimated only by reference to the cases which have or have not applied the rules, or large applied them differently; but if our knowledge consists of a systemization of these rules, established by the definition and evidering of the concepts of the quintual law, it takes the forms of a rational science.

Enowledge of the criminal law must be understood as entirely retrospective. It consists in knowing what the content of the original law has been. To the extent that this knowledge is developed into a retional acience, inconducacine and confusions in the existing provisions may be indicated and the basis of their clarification suggested. A science of the criminal law must be distinguished from the art of legislation, which is concerned with changing the content of the criminal law by addition or auttraction. The problem of constructing a rational code of criminal law is a legislative problem but one which can be solved only III the light of a rational science of the crimical law. In other words, the art of making laws or of constructing codes depends in part upon a knowledge of laws already existent and applied, and to the extent that one aims at rational legislation or codification." one must possess a rational analysis of the subject matter of the criminal law. On the other hand, the ecicuties inquiry can be undertuben without any practical interest in legislative action.

The subject matter of the criminal law consists of its statutes and other rules which judges apply in their decisions of cases. Whether the proposition applied to a given case as the rule governing its decisions is a cosmoon law proposition having suchority by judicial precedent or whether II is a legislative case, the application of the proposition as the rule of a new case, always involves some indepretation of its meaning. The subject matter of the eximinal law must, therefore, include the judicial opinions in which the rules are interpreted and applied in specific cases. To know the subject matter of the criminal law.

MA compliation of planters and manual law rules in other tabled a code of criminal law, but such complitudes und automates ment be distinguished from a gentley code what substant a qualum of land propositions which can be developed only in the light of a regional release of the mighest among of the criminal law.

is, therefore, closinly not an easy task. It cannot be known merely by recozene to recorded statutes; nor can it be known by reference to some textbook compilation of common law rules. It can be known only through an analytical study of the statutes and the case materials of the criminal law.

Indget are not jurists in the performance of their judicial function. They are primarily administrative officers where task is to decide the cases hought before tiese. In so far as judges by interpretation extend or modify the law, they are legislators. They can and do performs these tasks without creating a science of the criminal law, although in the formulations of their decisions it may measure for them to answer theoretical questions. Their opinions reflect and express their assurers to the theoretical questions raised by the cases before them, but their opinions can no more than fragmentary attempts to matyes that part of the oriminal law which is relevant to the case being decided. Judicial opinions, therefore, provide the material of, but do not constitute a science of, the criminal law.

The jurist performs no practical service. He is neither administrator nor legislator. Prec of practical suggesting, he can undertake a systematic analysis of the subject metter of the criminal law. By systematic analysis we mean, first, the definition of the concepts to be found in, or presupposed by, the rules of law; second, the ordering of these concepts according to their generality and subordineises; third, the indication of the incompleteness of the subting body of rules; and, fourth, the clarification of contentions of contentions of contentions and the subting body of rules; in that body of rules.

The knowledge which one would possess of the criminal law apon the completion of such an analytical study of it, would constitute a rational arience. In the first place, such knowledge would rest upon a rational hans. Propositions of the criminal law do not provide their own foundation. As we have seen, the behavior coulest of the criminal law attempts to define specific crimes, but never defines crime. The propositions of the criminal law do not formulate the bases of criminal labelity. A rational knowledge of the criminal law must, therefore, he founded in

propositions of a generality greater than first possessed by any propositions which are rules of criminal law. These more general propositions are the definitions of the generic concepts in terms of which the significance of the rules must be interpreted, and by reference to which they must be systematically ordered. In the second place, such knowledge of the criminal law would constitute a rational scheme in the sense that it would be achieved solely by rational techniques of definition and analysis. Its materials would be propositions. It would require no observational process and would in no state depend upon empirical knowledge of the administration of the criminal law.

The existing Anglo-American criminal law is a texture of inconsistencias and confusions which have ramited from inconsistent conceptions of the each it should serve and from the unsystematic and hapbanard nature of its development. The inconsistencias and confusions are revealed in such concepts as falony, misdementor and responsibility, in the inadequate and overlapping definitions of particular crimes, and it the provisions of the treatment covient, which are hoth pantitre and non-punitive. These confusions and inconsistencies can be clarified by rational analysis; they cannot, of course, be eliminated or corrected except by rational legislation, but such legislation requires the antecodent development of the rational actence by which it must metalise.

A rational science of the Anglo-American criminal law does not now exist. At most, there are fugitive articles in technical journals which aim at the charification by rational analysis of general portion of the total field. In method and purpose some ill these articles are admirable; the traditional techniques of legal analysis are thosoughly raismal. But these articles are

HIS-double, chapter on the creamables as the Commons Low as a excellent remain) of an arterior in by the foundations for a missael surjey of the creamlest. In it Holtzer undervalver to drive the concepts of creamal pathon, china, and the bases of creamal labelity. He applies the summingue allustratively but not subcountry. Upon a base of the serv which Holtzers providing, a notional aproace of the creamal law.

isolated and fragmentary. They do not entirely the need for systematic and comprehensive construction.**

Existing textbooks and commutation are at best energy compliations of statutes and rules under conventional and uncriticised rabrics. The case bests employed in legal instruction clearly exhibit the choose of any systematic analysis of the provisions of the criminal law. The textbooks and communitaries merely summaries a field of knowledge, more or less accurately, Such summaries reveal many unbiguities, confusions and inconsistencies in the statutes and common law rules; the cases.

Will about a size by makind than mean of them do not estimate to jame their analysis upon the lead of freedestons which Billimes kay in loss chapter. The importance and maging of a trainmant story of low to charty stended by how or The Falls 'f rick Low (California lagal papers. New York Billimes have the lateness Billimes and those, 1967, ye 197-1961, Than way to glass a declar never of your papers as not be read personage state. But that in the lateness of the second personage state. But the in the follow that examine body of disgram state on indigent agreembactures by the lably of influence that examine body of disgram state on indigent agreembactures by the lably of indigent states are the second personal process to be what ri is; and, thanky at the stay of cities, to come due to the which the several value soft in the state of the second state is green up in grant of the second personal prices in green up in grant of many and whether they are sworth their price. We have see british theory in the later rather than the second state in green up in grant thus, and whether they are sworth their price. We have see british theory in the later rather than the second.

Wife one spaid approaces how bostroord American legal adminishing has been in the field of the crimatal less, he has only to compare the machiner American grations on the correct less, much as Deboy's, Whatevir has Michael, with the European transment as Ven Lanc't Labour the Described Strategies to the Control of the C

"STREET and both tast test both reflect the local of surrection to the criminal few which currently prevaits as Asserted by the continual few which currently prevaits as Asserted by the continual few which currently prevaits as Asserted by the continual leve is 50° few properties of the continual few with the analogoaistic and monastances but is not directed drawful the substance of the discounters they make Participation, makes 6 content of the continual few and asserted the properties of the content of the co

furthermore, rewest inadequate and inconsistent judicial interpretations of these rules. No nitimaph has been made to clarify the subject matter of the criminal law by the construction of a rational science. The kind of restataments which the American-Law Institute has made of other busins of substantive law may be attempted in the field of criminal law. Such a restatement, however, would not constitute a rational science. It would not be the drafting of a rational code. The also of such a restatement would be nearely to summarize the cristicity law, ⁵⁰

This completes our examination of the theoretical problems of the criminal law. We shall turn in the enbuquent section to the practical problems of lagislation and judicial administration. In the light of these problems, the practical value of an adequately developed philosophy and science of the criminal law will become appeared.

Section 6. Legislation by Trial and Error.

Legislation if the art of making laws. It is a practical activity, and the problems of the legislator are primarily practical problems. In the field of criminal legislation he he required to decide what behavior shall be made criminal and bow criminals shall be treated. These problems cannot be understood without reference to the position of the legislator at a given time and place; that is, the problems of legislation must be differently approached according as there exists an intrinsic body of orbinian law the task is to create one also soon. In the latter case the legisla-

⁶⁵A joint committee representing the American Law Institute, The Americanus of American Law Schools and The Americanus Law Schools and Parket Schools and Parket Schools and Parket Schools are considered to the Schools and the Schools and Schools are considered to the Schools and Schools and Schools are considered as the Schools and Schools and Schools are sufficiently a man. The very deputite takes and a secretarily a man. The very deputite takes and a secretarily a man are considered to the Schools and Schools and Schools are sufficiently and Schools a

tor would be free to doubt a code of criminal law; in the former in the only amend and amplify an existing hody of rules.

The problems of criminal legislation tuday must therefore be understood in terms of the characteristics of existing criminal law. These can be briefly summarised an follows: (1) The griminal law serves incombatent ends. On the one hand, the fact that III provides both punitive and non-punitive modes III treatment,40 and the fact that it probablis many kinds of behavior which are not qualified by moral tarplitude but are probiblied because their social consequences are contrary to the welfare III the state." as presently engetitated, quite clearly show that our criminal law is not exclusively the instrument of so-called retributive instina-On the other hand, the fact that crimes are cloudful and aubilivided with respect to gradutions in gravity," and the fact that the severity of punitive treatment is proportioned to the gravity of the offense, are clear ladication that our criminal law is not entiraly decised as an instrument for protecting and preserving the walfare of the state by means of the prevention of crima through deterrence, reformation, and incapacitation. In short, our criminal law, throughout the provisions of its behavior and treatment contents, exhibits the inconsistencies which necessarily follow from its devotion to utterly inconsistant ends. 41

(2) The behavior content of our cetained law is inadequate and incoherently developed. This is in part due to the diverse origin of the rules in common law and in authory concurrent. But both the estationy and the common law provisions present a picture of defective definition and confused determination of

^{**}Probance, parole and the distinction between adult and jurcelle offendors are instances of pro-paroles supine supine distinction.

[&]quot;All of the crimes when one trademantly called male probabile exemplify the point; It will be reasonabled that a system of creminal has devoted to retributive paracherest cannot sursustently probable determine which obscurge would be more at the probabile determine which obscurge would be not up not qualified by more at improvious.

^{**}The classification of orbins into felomes and messignments, the subdivision of morder into degrees, of howely into point and grand, etc., Mosentic this point

with Recognized colors and an convent Recognized the properties of these two reds is recognized, and space attempt to make at least to affect a near-present his voice themselves a make at least to affect a near-present his voice themselves a manufactured than small extremely be, at us better than the Assertment parameter of squarement the problem.

specific crimen. The distinction between felouses and misdemeanors II relatively indeterminate. Such concepts as respondtility, culpability, lastest and meglugues are employed without a clarification of their ambiguities. The behavior content of the criminal law, in elsect, in not downloped in the light of a rational analysis of the bases of criminal limitities.

(3) The ireatment content of our criminal law presents a picture of incombinent efforts to punish, on the one hand, and to reform and deter, on the other. Furthermore, the contrivance of modes of treatment with a view to deterronce and reformation represents goesnes, and abouilt therefore for the criminal law does not reflect our ignorance of the effects of treatment. The degree to which it is determinate and fixed is not justified by knowledge. Finally, the treatment provisions of the criminal law are not properly coordinated with the provisions of the administrative code which must regulate the application and association of the provisions of the ireatment content."

The practical problem of wisely assending and amplifying such a body of orinsinal law is extremely difficult, if not impossible a logislator can do little more than patch and tinker; until the lawic inconsistencies are approved, rational legislation is not possible. If the basic inconsistencies were removed, if the legislator encognized that the sim of the orinsinal law is the welfare of the state and not punitive retribution, rational criminal legislation could be undertaken. But this would necessiste the drafting of a new criminal code.

MAG exampleston of the statemen and the costs dealing with tensards to a triffiching injurations of this power. An officient should be defined so as to acide only the above of the Appropriate Constant Control of the Control of the Appropriate Constant Control of the Control o

67 Thus, modes of treatment are promotion by the crossessi code which require curtion physical and other facetimes for their applications, and no provision as saide by the identificative code for them facetime. The crossest code may provide cotain kinds of treatment for crossessies of obsequents also are monthly delective, which can be applied only by a treatment parameter desapping special physical facilities, and the administrative code may find to provide both the models permaned and the needed physical facilities.

We cannot discuss here the problems or the procedures of any except a rational legislatur. By the rational legislator we men one who attempts to answer such questions as what shall be the end of the criminal law, what hehavior shall be prohibited. how shall offenders be treated, in the light of enswers given to the parallel theoretical questions what should be the end of the criminal law, what behavior abouid be prohibited, how should criminals be treated. The existing body of criminal law II essentially a product of irretional legislation, either by the judiciary or by legislatures. With respect to specific provisions of its behavior and treatment content, it could not have been otherwise. since the knowledge received for a rational determination of these provisions does not yet exist. But empirical improvedes is not needed for the definition of the end of the criminal law and for the proper conception of criminal justice. To say that the logislation which has produced the criminal law is cosmitally irrational, is to say that it is not philosophically enlightened, that it is not directed by an understanding of the sthical and political considerations which are bosic to criminal jurisprudence.

We must be context, therefore, to indicate the conditions of rational criminal legislation. The rational legislator must, first of all, appreciate that the criminal law is an instrument whereby to achieve the walfare of the state. He must recognize that the welfare of the state is determined by the nature of any political society and by the canaditation of the particular state which he serves.⁴⁹ In wheet, the rational actionees of ethics and politica must said the legislator in defining the specific interests which the provisions of the criminal law should be designed to protect. Unless these indexents are defined, it is impossible to

[&]quot;By the constitution of the state we mann its possible political structure, its common structure, and the could man which the political and monomic expensions in instancial in serve. That is, the legalitous count more place-thing of infrancials in the common political contents which at a given laws are found to the form the common pool structure and the structure of the contents and structure and the structure of the contents and structure of the country to content political contents and the structure of the contents of the structure of the str

evaluate behavior as socially undesirable. Empirical knowledge of the consequences of behavior does not by itself over mapply the criteria by which these consequences shall be judged as being for or against the common good. The simplicial of evaluation must be rationally determined.

But the solution of the besic problem of criminal iprisprudence, that is, the end of criminal law and the definition of the exiteria of evaluation, does not suffice to decide specific questions about the bahavior and treatment contents of the criminal law. Although the rational legislator may know what in general is instiffable, he will not necessarily know whether a particular positive rule of law is justified to a defluite degree. Empirical knowledge is thus required with respect to specific provisions of the behavior content of the crimical law. Common knowledge and experience may suffice to indicate that certain types of behavior should be prohibited; but in other cases it may be necesmany to ascertain the social consequences of behavior by empirical investigation. Compan knowledge and experience may need to be supplemented by research in order to define with sufficient precision the nature of the behavior to be prohibited. With respect to specific previsions of the treatment content, common knowledge and experience are much less conful to the legislator. It is a common some generalization of high probability that punishment acts as a determent, but this knowledge II not precise enough for his purposes. He must know the relative deterrent effects of different modes of punitive treatment and the relative deterrent and reformative effects of different modes of puzitive and non-positive treatment. The problems of empirical research in this field are, so we have already said, extremely complicated and difficult. But they must be solved. Knowledge of the effects of treatment must be available if the treatment context of the criminal law is to be rationally determined. It should be remembered that knowledge may be forever inadequate to make this determination because of the opposition between the ends of deterrence and reformation, and because it may never be possible to know which of these code is preferable as a means to the common good.

A rational legislator would be abled, furthermore, by knowledge of existing and just ledies of existinal law. A history of
the criminal law and us comparative study of various existing
criminal codes would serve ill supplement the legislator's inadequate knowledge of the connequences of various types of behavior and the consequences of legislation fixelf.* To the degree
that the knowledge which a legislation possesses with respect to
the existing criminal law was developed as a rational selemes, he
would be able to base his legislation upon an analysis of the
nature of order and of existing liability. Furthermore, a rational
selence of the criminal law would sid the legislator in drafting
new provinious to avoid the ambiguities, confessions and inconsistencies which is the averaged.

Finally, a rational legislator must have compirional knowledge of the administration of the criminal low. He ought to know how the various previous of the criminal low work in fact. He must know the social consequences of criminal legislation and of the administration of the criminal law. If there are alternative non-logal means of protecting nociety against the effects of the behavior in question, his decision to make the heliuvior criminal must be based upon the choice of the legal means us the one most conductive to furthering the social interests at raths. In short, he needs knowledge in order to decide whather the disadvantages resulting from the enforcement of legal provisions outweight the disadvantages of the helevier provisities.

The legislator requires knowledge of the administration of the criminal law in order to salve fix administrative problems, III so far us these can be solved by changes in the administrative code. It is not splitted that the criminal law be devised to achieve the nitinate end of the social welfare; the legislator most construct an administrative code which will achieve efficient deministration of the criminal law. To do this he must know the furtors

 $^{^{44}\}mathrm{A}$ conjugation utility of cruminal codes to extremely model in the tra) , true process of legislation.

upon which such efficiency depends. He must know which of the various means which are now employed ners more or less efficient, in order to choose smoose them. It is only by knowledge or analysis of the conditions of efficiency that he can deviae the most effective administrative machinery. The drafting of provisions of the administrative order thus depends upon empirical knowledge, some of which may be founded by remarch, in the same way as does the drafting of newsimps of the criminal code.

The problem of the treatment of offenders # the most gradul problem which a rational lagislator faces, because it may be necessary to solve it tantatively in the absence of the requirits knowledge. He must recognise that a definite mode treatment cannot be finally assigned to the infraction of a definite prohibition. He must recognise that treatment may be punitive or nonpunitive, and most be edjusted to the potential and actual offender rather then to the nature of the offence. But knowledge of the causes of eximinal behavior and of the effects of modes of treatment and other preventive messures is prersquiste to the solution of these problems. In the absence of such knowledge, a rational legislator can take only one step towards their solution; must create administrative machinery which will make it possible to experiment with modes of treatment when such experimentation can be undertaken. So long as the legislator continnes to make the criminal code a penal code, so long as he ill great part attackes different kinds of punitive treatment to different kinds of offenses, no long as he deceives himself into believing that he is proceeding on the basic of knowledge, legislation will not only be inconsistent with the end of the criminal law, but will also make it difficult to acquire the empirical knowledge without which the treatment of offcuders cannot be properly determined.10

¹⁰The legulator may coupley the mintermentic moisence, other wholly indeterments or indeterments within question regiments. He may be under the make conjugate of the make the little of a distribution of the profits of a distributive borning sprace and/orders, the R is clear, at my rate, that the legislator cannot have life the minter of treatment of treatment of treatment of the measure capture of the minter of treatments.

Ourrent legislative problems, in so fitr as they are questions about the amendment or amplification of the existing crimical law, can be solved rationally only to the autout that the legislator definitely recognises the limitation of any partial modification of the existing code. The criminal law can be improved lagislatively by a clarification of the content and by attempts to eliminate inconsistencies and ambiguities. Herund this, however, all propossils for the reform of the existinal law count be viewed at present as proposale for legislative trial and error. The knowlsides does not at present exist to do anything size. Where the necessary knowledge does not exist, it can only be acquired by experimental research. Legislation should, therefore, be undertaken tentatively and in the spirit of subservience to the aims of research. This attitude can be tedeced only by a full appreciation of our need for knowinder."

The problems of the jedge arise in part from the necessary and latripsic imperfection of any body of laws. The propositions of the triminal law, so of any other body of law, must always be imperfect as generalisations. Laws always require correction in individual cases. Judges and magistrates must therefore have discretionary power in the epolication of rules to particular cases." This discretisuary power most be two-fold. With respect

ment can comer only at a time which the legislator passesses sufficient immorbidge to recognize treatment for different systems of defending the control of the control of

to the behavior content of the crimical law, the judge must decide whether the given case falls under the definition of a prohibited act; no matter how much knowledge we have, no matter how well developed and systematized our crimical law is, our definitions must remain imperfect in the sense that particular cases may present assembles. With respect to the treatment content of the crimical law, the judge, or sense other official vested with that power, must decide whether the particular offender shall be treated in one of a number of ways. No matter how much knowledge we have of the effects of different kinds of treatment upon different types of offenders, it will always be necessary to decide whether or not a given individual belongs to one or another type; particular cases will always call for the starchast of administrative discretion.

The imperfections of the criminal low must always require its application by equitable administrators. The judge must not only know the law is order to do justice according to it, but he must rectify it in particular cases. The imperfections which attend both the work of the legislator and the work of the judge supplement each other. The former, seeking to make just laws, formulates general rules which are imperfect in that they do not apply equally well to all cases. The latter, seeking to dispose justily of particular cases, corrects the imperfection of the rule

myrs, at a correspond of legal pastons; "the remant is that all late is uncreased, but about a come thanks it as not pecceled on make a successful material which all live instruct." In these cases, when, in which it we becoment 10 spale terroremally, but construct in these cases, when, in which it we becoment 10 spale terroremally. In the contract of the possibility of error. And it is name the lates covered; for the error is not not in the late of the things, saces the name of practical afterns as of the lates the sace the nature of the things, saces the name of practical afterns as of the late for the covered of the covered of practical and the late of the covered of the values of the deficience around to its united of the opening of the covered of the values of the deficience around to the covered of the values of the deficience around to the covered of the values of the covered of the values of the deficience around the value of the covered of the values of

We are here using the term equatable structly as the Aristotalian sense of administrative describes in the suventium of superiors soles

V*Thus, according to the pussions of Justimus (Lib 1, tor 3, urt. 2), "have abodd be made to surf the reducivity of institutes; and they are not futured according to what may possibly happen as is absolubil care." For an electropistic discussion of the question whether humans law should be found for the community rather than far the individual, see Againm, opt. of., in Hus. Q. 98, Art. 1.

he applies. In so far as these corrections are untablished as pracedent, they became rules of law and the judge performs a legislative as well as an administrative function. A guvernment of laws without men must be as ineffective as a government of men without laws, unless it be passible to formulate perfact rules or to have cases administered by serfect judges."

In the calution of the practical problems which he faces the judge will be much aided by a rational actence of the crimical law. In so far as He occurious a legislative as well as an administrative function, he requires all of the knowledge which the legislator needs. Judicial opinious which accompany the decision of particular cases are legislative documents to the attent that thay interpret either statutes or common law rates. The formulation of a rational system of criminal law is, therefore, in the inner of the judge as well as of the begulator. When both the judge and the legislator are juviste as well, when they are attiduate of the criminal law and of criminal juvisprudence as well as its practitioners, we may have a retionally constructed and a rationally administured criminal law.

Ideally the legislator abould be the master of all the sciences, both rational and empirical, which are relevant to the phanomenn in crims. In no far as such knowledge is sought because it is madni, ill should be gathered largely for the sake of the legislator. To the artent that he is guided by window, by rational analysis, by valid empirical knowledge, and only to that artent, will the oriminal law and his administration be justified as a means to the rommon good.

Bottlett 7. Conclusion: Lew and Bacini Science.

The relation between criminalogy and criminal justice excomplifies the relation which in general obtains between empirical

Physics the conception of the similarity as a master of the suspensed arts, see

LIND I LOUNCE

knowledge and law. The definition of this relationship formulates the interdependence of the various purts of this book.

Law III not coordinate with either the suspirical or the rational sciences. Referee is the crusture of the theoretical infellect; descriptive knowledge, that is, knowledge of particulars, is the creature of the sensitive intellect; but has in created by the operations of the peachteal intellect." This resterates what has already been sulfill about propositions of law an expressions of decidens and indigments. They do not express knowledge."

The practical intellect is dependent upon the theoretical intellect and the censitive intellect. This references the point that all practical problems have theoretical aspects. The rational solution of practical problems depends upon knewledge, either the kind of knowledge that the eciences contain or perceptual knowledge of particulars. The field of jurisprodence must, therefore, include not only the study of law but the study of the sciences upon which law depends. Before the rise of the social sciences, the field of jurisprudence had its theoretical branch ! the rational sciences of ethics and politics and its practical branch in systems of law. The social econoce had their origin in the employment of empirical methods of research in the field of incluproduces." Sociology and politics, as empirical sciences, are the ampirical correlatives of the rational aciences III ethics and politics, just as the empirical science of psychology is correlative to the rational science of man. Jurispredence embraces this whole field of rational and empirical knowledge and organises it in relation to the science of law, the art of legislation, and the produce of administration. The nature of this calationaldy oan

[&]quot;'Our document of the materix of science line numbe at clour that an emparitable schenge in a product of both the theoretical and the groundway unbellet, whereas a restorate of the documental mobilect above.

¹⁹ This misst not be moreodersecoid to make that the proportions of law cannot consiste the analysis matter of a number When law as very on the law or a rational, and only a restorant and it is knownly use of the submission that have a rational, and only a rational of the submission of the law is knowledge of the actuation of the law is a law in the law is a law in the law in the law is a law in the law in the law in the law is a law in the law in the law in the law in the law is a law in the law in the

[&]quot;Thus, Adam South, with when Whith of Mahan makers political economy begin, coundered that his work was a materianism to the larger field of puragradance. Thus, too, economics is one of the mispecia dust with by the involvy of law in the University of Para and as affect Strugeness interespection.

be simply indicated. The practice of lew, which includes legislation in the sense of formulating rules and printence in the sense of judging and deciding particular cases, derives part of its theoretical guidance from the rational netweets of athless and politics. But this guidance is merely with respect to the sime which the practice serves and its rational foundation. The practice depends II equal part upon the knowledge afforded by the supplied actences of man and modely. This knowledge directs the practical intellect in making the specific determinations which constitute the prepositions of key, and in administratory the law.

As we have seen, the practical problems of the criminal law can be rationally solved only if we possess the kind of inproviding which criminology seems, but has so the failed to give us. Conversely, the prestical value of the knowledge which may some day be obtained in the fields of criminology and the other social sciences is primarily its utility in the direction of rational legislation and judicial administration. Lew in this some the best technology in the field of human affairs. It stands to the rational griences of stitics and to empirical acidal admess as mechanical and other types of engineering stand in relation to the rational sciences of mathematics and the empirical physical sciences.

This survey of the fields of criminology and criminal justice has narry if viewed with reference to the test of the stateman. It is he who must have the walkne of the state at heart. His should be the scientist who scales to know the true good of the community; he should be the surfact who attempts to create the manus to realise this good. The fields of knowledge which we have surveyed, largely by formulating theoretical questions,—some of which have been, and some of which are not yet, narwared,—topresent the knowledge which the statement sumst possess in order to shape the law as a recess to the common good.

WThe traditional division in English assumption of all volunt embers into the field of natural philosophy and amount, on the one hand, and nearly philosophy and coince, on the other, north Maniston the yould have being much. Moral philosophy and except at co-extensive with the Family of Jaraguedanan in the structure of a mathemic currently. Low explosions the procince and the set of principations.

PART FOUR

CONCLUSIONS AND RECOMMENDATIONS

Chapter XII.

AN INSTITUTE OF CRIMINOLOGY AND OP CRIMINAL JUSTICE

Section 1. Introduction.

The phenomenon which we call crime gives rice to the many trigant and perplaning problems which are involved in the administration of the crimical law and in society's effects to deal with crime and criminals by mon-legal institutions and processes. These are practical problems in the essee that they are problems of practice or procedure; they are to be contrasted with theoretical problems which are questions as to knowledge. It may be assumed that it is of the nemocal importance to accludy that the practical problems of crime and, especially, the problem of controlling criminal behavior by wisely solved.

In previous chapters we have associated the nature of practical and theoretical problems and how they are related; we have discovered and analysed the more important and prevative of the practical problems which have their origin in the existence and prevalence of criminal behavior; we have determined how knowledge can aid in their solution; and what knowledge is needed as a condition of their solution; and we have revealed how little of this knowledge is presently available and in what directions and by what methods research must proceed if we are to obtain the knowledge which is no ungestily required.

We have discovered an againsting state of ignorance in the fields of criminology and of criminal justice and our impotence, by reason of our ignorance, to cope with the major practical problems which grow out of crime. It is plain that if we dealer to be able to solve those problems wisely, the most practicable way in which we can proceed in to attempt to enlarge our knowledge. If the whos solution of the problems of crime is our goal, it is obviously of much greater importance to endeavor to add to our knowledge than to try to increase the efficiency with which the criminal law is administered, that is, to try to detect a larger proportion of the crisese that are consuited, to apprehend, prosecute and couriet a larger proportion of the pressus who commit erimes, and to subject a larger proportion of criminals to post-conviction treatmant.

The only process by which we can obtain the knowledge which we as much seed, is the provess of wiestific research. We believe that such research can beat be conducted in a new academic institution organised for that purpose. Our survey of the researches which have no far been executed in the fields of criminality and of criminal justice indicates extract clearly that we cannot raly upon existing research facilities for the knowledge which is needed. If in therefore our purpose in this chapter to state how such an institution should be organized and administrated in order to insure that II will do the most effective research. We shall do this in the form of a series of recommendations for the establishment of an institute of criminology and of criminal justice.

We shall first recapitulate the conclusions which we have reached in prior chapters, conclusions with respect to the state of knowledge in the fields of criminalogy and of criminal faction.

Hi such an antitude can at these transformed by the view arbitron of the problems of crure by any of the activities of their such as maintained on such training, then it would appear to be not only desirable but supportive from the access point of new that an activities be epithipheles. That exciteins by what the desirability of fundance as support of recommendation in the declaration of the such activities and activities of contracting via all or recommend unions in to be declarationed, in its second attribute of crime and the support of the prevention of trunk, for example, it is practical activity, it as a looky of knowledge relating to crime and contamils. Or removing any polynomial man quantum as to knowledge, not us to practice. In the status tway crassially plantage must be the for latter to refer to that body of knowledge which is activited to the crimenal for must be infantatively with the substant to the substantial contracts.

with respect to its practical stillity, and with respect to the kinds of knowledge needed as a condition of the solution of the more fundamental of the practical problems of crime. We shall then make our recommendations, both positive and negative, with regard to the establishment of an institute. In our positive recommendations we shall state our judgments regarding what an institute should do and how ill should be organized and administered in urley annut effectively to accomplish its purposes. In our negative recommendations we shall express our judgments regarding what as furtifule should not do, and the reasons why an institute about about devoticion.

Our recommendation that un institute W criminology and W criminal justice be established at this time is based upon the need for knowledge as a condition of the solution of the major practical problems of crime. Judged by that critarion we do not regard this recommendation as one about which reasonable man can disagree. Our recommendations regarding the scope and character of the institute's activities and the nature of its personnel are based upon the conclusions which we have reached

sole feacutes of an ethicure, efficiented are in give and give production of the product of the

*Of course, we retaine that, padged by other craterus, and partrophely by practical considerations of one and or assults; occursible man might dampine about the describing of substitution of substitution of substitution of substitution of substitutions.

in prior chapters and which we are about to automarine. The reader who has ultestively followed the survey of knowledge, there set forth, the criticism and evaluation of that knowledge, the exhibition of the methodological defects and inadequacies responsible for the fruitlenmens of vast amounts of reacarch in the fields of criminalegy and of criminal justice, and the analysis of the theoretical aspects of the practical problems of crimwhich indicated the kinds of knowledge moded for their colution, must concor in our definition of the end to be served by the establishment of an institute and in our prescription of the institutal's uncurant and servenum in order to firstly this nurrous.

In other words, we do not repard the scope and character III the institute's activities and the kind # personnel needed to perform those activities successfully, as questions about which reasonable men can differ, if they accept the conclusions which we have reached. But those conclusions are answers to theoretical questions and as such are, as we maintain, either true or highly probable. They are true in as far as they are answers to theoretical questions about the nature of ectance, the end of law, the nature of justice, etc. They are probable in so far as they are descriptive propositions enumerising the knowledge in the felds which we have surveyed. In neither case are those propositions opinions. They are not mere assertions which can be refuted by contradictory american. We have always prosented the demonstration of the accommitions which we hold to be true and the evidence for the propositions which we hold to be highly probable. Therefore, our conclusions can be refuted only by showing error in analysis or by offering additional syldence in terms of which the degree of probability of our probable propositions | disriminhed. Hence, remonable mea can disagree with our recommendations regarding the scope and character of an institute's activities and the kind of personnal which it needs, only by showing that the conclusions which we hold to III

⁴Neither the recommendations fluvorince for our scientists as manage acces was so clearly understood, except by one who has attentionly and with a small freed of projection followed our descendance up to the present part.

true are false or that the conclusions which we hold to be highly probable are allertly probable.

These recommendations, however, must be distinguished from those with respect to the manner in which the institute should be organized and administered. We have entauwed to formulate our recommendations with respect to these matters in the light of such knowledge as we possess and the relevant practical considerations. We helieve that our solutions of these problems are wise solutions; and we submit thous in that belief, but with full realisation that reasonable mus may disagree with one or more of them. The knowledge and experience in the light of which recommendations of this character must be formulated, do not point as certainly to the solution of these practical problems as they do to the solution of the problems of the scape and character of the intrinciple activities and the conditions of the proposal.

The distinction between those of our recommendations about which we have said that reasonable mee cannot differ if they accept our conclusions and those recommendations about which we have said that reasonable men can differ elthough they accept our conclusions, meet not observe the point that all of our recommendations are practical judgments. They are either wise or unwise, acount or uncount, intelligent or naincelligent. They can

Who have occurred upon a semilor of assumptions in formulating one recommendations. We have assumed that a plus for an assume should not for too possible to be desired the contraction of the contraction

not be esserted on true or probable; they cannot be proved by reference either to torquestionable principles or to evidence.

Section 2. Conclusions?

- I. There is no sejentific knowledge in the field of criminalogy,
 - A. We have no knowledge of the caness of criminal bebarior or of the effects of different modes and varieties of treatment upon actual or potential offenders or of the efficiery of progresses and measures of prevention.
 - 1. In the absence of such knowledge we are and will continue to be impotent to control criminal behavior.
 - B. The knowledge which has resulted from criminological research in knowledge descriptive of the characteristics. of criminals and of their environments.
 - C. This descriptive knowledge has little utility III the solation of the practical problem of controlling criminal bahavior, either through programs of prevention or through the official treatment of offenders.
 - 1. It can be amployed salv in trial and error attempts to control criminal hebayion, and therefore has little practical value.
 - 2. Buck attempts cannot now be made the buris of experimental programs and, therefore, have little theoretical nignificance.
- II. Empirical scientific research in criminalogy causes be undertaken at the present time.

⁶In this respect they are to be desinguished from our conclusions which are, as we have each, arguest to their class is questions and, therefore, where two, take or probable. "Throughout this charter we shall now any, words and planates us patronal, em-*** A monignous has compres we must now some words and parameter or particular, better, the promotion is now-bright, obscriptions, investigate, was promoted, the same sense is now-ledge, that and error and sectionalings, an promote has been sense as which we have been using them is primar chapters. We chall now furniture with the intensings, which we have been integrated to the characteristic of the challenges which we have integrated to the characteristic of the challenges which we have integrated to the characteristic of the challenges which we have integrated to the characteristic of the characteristic of

- A. The subject matter of criminalogy ill criminal bahavior, and criminology in therefore, a dependent science.
- B. Criminology depends in large part upon the subject matters of psychology and sociology, and these subject matters have not yet hom developed as empirical sciences.
- C. Since no theory or analysis has been developed in the fields of psychology and actiology, scientific research W not yet possible in these fields.
- D. The possibility of scientific research is psychology and sociology depends upon radical changes in the methodology of investigation in these fields, and this, in turn, depends upon the correction of the asseconception or inadequate conception of empirical science and scientific method which is now powerslest in these fields and which we have characterized as your constriction.
- III. There is knowledge descriptive of the processes and institutions of criminal juntice. This knowledge is noth quantitative and non-quantilative.
 - A. The quantitative description knowledge is incapable of unumbiguous interpretation and therefore has little practical utility.
 - B. The non-quantitative descriptive beowledge can be interpreted in terms of commess sense knowledge of the conditions of efficiency in the administration ill complicated enterprises and in the conduct of practical affairs. It therefore possesses great practical value.
 - 1. We do not now possess enough knowledge of this sort,
 - C. Scientiffy knowledge of the cliency of administrative efficiency is not needed to solve many of the practical problems involved in the administration of the criminal law.
 - D. Scientific knowledge of the children of administrative of fickercy does not now exist, but would be highly useful in

the solution of the more complicated practical problems of criminal justice.

- IV. The notion of retributive juntice is untenable and a source of confusion and incommissory in the criminal law; the criminal law should be directed toward the social good and not toward numbrice retribution.
 - A. Behavior which is contrary to the social good, as that is determised by the consileution of a particular society, should be made criminal valent its probibition by law would have greater social dissivations.
 - III. The treatment of offenders can be either punitive or non-punitive but should be directed either to the incaparitation of incorrigible offenders, to the reformation of corrigible offenders, or to the deturence of potential offenders.
 - II. If the ends of detarrence and reformation are opposed, treatment must be determined either as the result of a selection of one rather than the other of these suits, as accially more desirable, or by some compromise between them.
- V. Neither the behavior nor the treatment content of the criminal law can be determined without empirical knowledge.
 - A. We must have such knowledge in order to determine the consequences of certain types of behavior.
 - B. We must have knowledge of the consequences ill the administration of the criminal law is general, and of the effects of the administration of specific provisious of the criminal law.
 - C. We must have knowledge of the effects of various modes and varieties of treatment upon potential and actual offenders.

- Rational legislation and rational administration depend upon knowledge of various kinds.
 - A. Hational legislation and administration must be guided by an understanding of the end of the criminal law and of its fundations.
 - The rational unicesses of ethics and politics afford the knowledge and analysis essential to this understandtus.
 - H. Rational legislation and administration require knowledge of the consequences of various types of bahavior and of the effects of various kinds of official procedure you the behavior of actual and potential offenders.
 - Psychology and the social sciences in not at present provide up with this knowledge.
 - A science of the criminal law iii needed in order to construct a rational code.
 - 7. No such seienes now exists.
 - In the absence of such a science, knowledge of the history of the eristical law and of the institutions of criminal justice and knowledge of other systems of criminal law assume increased importance.
 - As historical and comparative study of the criminal law will supplement a rational study of the criminal law when it is developed.
- VII. The figlos of eximinalogy and eximinal justice can be unified in relation to the practical problems of rational legislation.
 - A. The work of an institute of criminology and of criminal justice can be unlifed by the problems which must be solved as a condition of the formulation of a rational code of triminal law. The communation of this project can be recerted as the final purpose of such an institute.

Section 3. Positive Recommendations.

- It is desirable at this time to metablish an institute of criminalogy and of criminal instice.
 - A. The scope and character of the implitute's activities.
 - 1. It should be devoted exclusively to research.
 - a. If should engage is no instruction except the included training of socialants and apprentices in research.³
 - The research activities of the institute should proceed in several directions.
 - It should conduct such reserve an any to normany to bey the foundations of, and to begin the construction of, a science of criminology.
 - (2) Of all the activities in which an institute of triminology and of criminal justice could engage, research directed toward this end is of the greatest theoretical significance and of the greatest reaction; importance.
 - (a) It is of the greatest theoretical significance because until a science of criminology is

Filtra plately displated instrumentialistics in required and one cases in it is the given in First wheel set yet with the insertion charge days be commended, as well as acquarted, without any where the time or protected officers, or it may be impurited with a vivite to fix practical applications. Although knowledge may be welled in practical, if these nor apply read to practical problems, it sould be explicit by more in the spiritual problems, and the explicit by more in the spiritual problems of crime are appropriated for including sequenced with the protecting problems of crime are appropriated for including sequenced with the protecting problems of crime are appropriated by which it may be applied in protection, the submoss of practical problems in impounding which be presented in the protection of the crime of the problems of the

developed, it will be impossible to solve the busic theoretical problem of crime, namely, the etiology of criminal behavior.

- (b) It is at the greatest practical importance because within we have knowledge of the causes of erbainal hebation, it will be impossible to solve the basic practical problem of crime, namely, the control III crimical hebation.
- (2) That such research may sever succeed in the contraction of a science of criminology or that it may succeed only after many years, does not detreet from its practical importance.
 - (a) If it is impossible to construct a science of criminology, it is of the greatest practical importance that it should be known in be impossible, for antil we know whether we ran or cannot accertain the causes of criminal lashavior, our approach to the amojor practical problems of crime must be confused and uncertain, as it is today.
 - (b) The peactical value of knowledge which will anable me to control criminal behavior in no great that we should us not as possible begin to make every intelligent effort to obtain such knowledge and continue such efforts as long an they give reasonable

FWe do not brow what to do, lecume we do not lawy what we can do not was the curson (in a way event, if we have at on he manywhite to absorbtant the others of crume we angit, at least, cause the wanted acquestione of tree and movely what is now being made in faith attempts to sales that problem. We faith sweet later we now the same that the same that

promise of success, no matter how long that may be.²⁶

- It should conduct such research as may be necessary to improve the methods of observation and the statistical techniques which are currently employed in crimicalsgical resourch.
 - (1) But it should not conduct such research except as a study in methodology and as incidental to that recommended above. This recommendation is therefore conditioned upon the acceptance of that recommendation.⁴⁶
- It should conduct empirical studies of the administration of the criminal law.
 - While the theoretical significance of the descriptive knowledge which can be gained by such research in limited, its practical utility in attempts to increase the efficiency of criminal justice, in great.
 - (a) While we have a great deal of such knowledge, there is much more of it which we lack.
 - (2) Such research, however, should not be regarded as of equal importance with that directed toward the construction of a science of criminalogy. Until such a science is constructed, we

[&]quot;My c rational persons would suggest that on assist no effect to ascortion the stocky of citactive beganes were still revery success for houseway may be long defected."

At This is not a recommendation limit the anothers engage no reloase the feet and of the state of the process of the state of the stat

shall be unable to distour the affects of the edstimistration of the criminal law upon the behavior of actual and potential offenders end, hence, we shall be unable to may whether or not increased efficiency in the administration of the criminal law is for the actual writers.

(8) The emphusis in such research should be upon that which is directed toward obtaining neaquantitative knowledge descriptive of the processes and isotitutions of criminal justice.

It should endeavor (1) to construct a rational scheme of the criminal law; and it should conduct schede (2) of the administrative code, (3) of the history of the criminal law and of the administrative code, and of the history of the institutions and of the administration at the criminal law, and (4) in comparative criminal law, both substantive and precedural.

- (1) The communication of a rational science of the criminal law is of practical importance because, so we have seen, it is percepting to both the rational lagislative development and the rational administration of the criminal law.¹²
- (2) The study of the administrative code is 50 practical importance because, as we have some know-beiger of the udministrative code is essential both to an understanding of the processes of criminal justice and to the contrivance of methods for increasing their efficiency." In some cases in order to bring about alterations of the processes of criminal justice, ill is necessary to alter the provisions of the administrative code.

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- (a) The study of the history of the eximinal law, of the administrative code and of the institutions of criminal justice, is essential to a understanding of criminal justice as M exists today and, hence, to rational legislation and administration.
- (4) The comparative study of both substantive and procedural criminal law is a means of snabling us to supplement our own wisdom and experience by the wisdom and experience of other peoples.
- a. If should hold itself resety to advise all who sask its advice, both those who encourage or promote or subsidies research ill criminology and in criminal justice and those who plan and exceute such research, regarding the theoretical significance and the practical utility of the knowledge which can be obtained by specific projects. It should also aid in the solution of mathodological problems raised by these projects.
- These proposed research activities are compatible with one another and supplement one another.
 - (1) Each of them is a necessary means to what should be regarded as the ultimate purpose of acquiring knowledge in the fields of criminology and of criminal justice, namely, the construction of a rational criminal code and of an administrative code which is best adapted to the rational administration of a code ill criminal law.
 - (2) The construction of a science of criminology is of prinary importance among these activities, The importance of the others if secondary if the sense that they alone will not camble us to con-

struct a rational criminal code, which, as we have said, should be our ultimate purpose.

- (2) While any one of those four activities can be undertaken alone and badependently in the others, if only one is to be undertaken it should in that one which is of primary importance, namely, the construction of a science of crimicology.
- (4) If choice must be made among the others, the most important B research to the administration of the crimical law.¹⁴
- g. That there may be no doubt whatever about the meaning of time positive recommendations, as newed here where a negative recommendation. If the criminological research of an institute must be of the some kind as that which has been and in now being slowe by criminological, it would ill better that no mentions whatever be antablished, or, if established, that no criminological research whatever he does.

Discussion:

There seems to be a widespread belief that the common sense knowledge which we have about banana nature is of practical value ill attempts to control crime, either by itself or when supplemented by the findings of criminological connects which, it is maintained, such knowledge enables up to interpret nigolifonally and to apply practically. Those who passess that belief will, of course, disagree with our negative recommendation.

We do not deep that we have a great deal of common sense knowledge about human nature. It is the nort of knowledge

¹⁴¹⁵ will be randily more than at well be paradile, if, mitted, it is not fiverable, for the university or suplemilia can or more of these works may in the large-same and granularly to enlarge the large of the archesists satisfy in a company. — all which we recommend to the contract of the contract

which all mess may in their dully contacts with their fellow men. The great creator, the "magnetic" leader of men, the successful malessum, the outstanding mostlist or demandiat are varially distinguished by the exceptional degree to which they possess the insight into and the understanding of imma nature and behavior which are the comman passession of all sees. Much of what passes as 'scientific psychology' is knowledge of this cart diagnized by the spectrum technical vocabulary of the academic psychology' has given mothers a new language in which to say what they always knew about their children. That a burst child desset the fire, is the same knowledge although stated in terms of conditional referen, nametive conditioning, agastive visceral responses, etc.

The quarties, however, is whether each common stage knowledge of human neture, which is possessed by psychologists and posts alike, is useful in the control of criminal behavior, sither by itself or when supplemented by knowledge III the characterlatter of criminals and of their environments. Il it can be usefully applied by itself in efforts to prevent crime, its application is not dependent upon, nor is its utility increased by, criminological research. Such knowledge is not the product of criminclosical research which, at most, only realitims what common sense already knews shout human nature; and, by hypothesis, it possumes practical value independently of the findings of such research. Therefore, we do not have to conduct research in crimindicate in order to employ common comes knowledge of human nature by itself in afforts to prevent crime. However, it should be pointed out that although we have long possessed and used such knowledge to our struggles with crime, we are certainly not estimied by the degree of mornes, whatever it may be, which we have achieved by means of such hanwledge; and there is no reason to believe that by means of such knowledge alone we shall be more executeful in the future.

Whatever utility common sense knowledge of kuzzan nature may have in the control of existinal behavior, when supplemented by the £ndbigs of etiminological resourch, in dependent upon the shilly of common sense to make significant stelepted interpretations of shaeristive knowledge about celeminals and their environments. But, as we have already seen, this descriptive knowledge cannot be given any etiological interpretation what-source, although, as we have also seen, common sense does incorrectly infer causal relationships from data which are inadequate as a basis for such informers. These informers are, therefore, aufounded opinious upon which we can preceed in practice only by trial and error.

In short, (1) common sense knowledge is by itself insdequate to cope with the practical problem of contrelling crime, and (2) the descriptive knowledge yielded by criminological research does not stopplement camenon sense so as to compensate for its insdequacy. It is for these reasons that we recommend that criminological research of the kind which has been and is now being done, about not be newticened.

- B. The structure and the personnel of the institute.18
 - It should be established in a large university, but it should be entonomous within the university.
 - a. It should be established in a university so that it may avail itself of such of the university's facilities as the library, thus avaiding the necessity of duplicating such facilities and reduced the cost of establiables and mechatalature the insufferts.²⁵

MYthe distorting of no non-forces maximizes are the same as force of tay other. When a struptome, or mode of organization, is presented and physical landines. While our recommendations consolidate or plan for on autobate we have out, attempted to formulate a plan complete and respects. For our gargetines 2 as measuressary to counties such maximize a division of the continue, to physical facilities, in bodystary requires that the problems which we would like the highes not so count by a complete has not the problems which would like the highes not so count by a complete force of the problems which would like the plants of the plants of the plants of the problems which the problems when th

Objects obscuring a which might be expected to notice to the statistic from the repetition or a distinct with a magnitude, we as follow: material hardward other than the laterary, the prostage and authority model for state to suderpairing, the statistic content of the statistic constantly described for the scale for the suddentiality of a student body from which to record supersistent of the spirit, the excludibility of a student body from which to record supersistent of the spirit of the spirit processing of suddential successful expenses.

- k. It should be established only in a aniversity which will express itself as being in sympathy with the remarch program here recommended.
- c. It should be autonomous, because autonomy is a condition of the successful accomplishment of the inatitute's purposes.
- d. By autonomy we mean that the institute should ill all times have control of the scope and character of tta activities, of appointments to, and the compensatien and promotion of the members of, its staff, and of its bedgetary arrungements.
- 2. It should be a condition of the establishment of the institute in any university that the institute have autonomy as herein defined. **
- 2. It is desirable that the school of law of the university and the institute should eventually become two of the members of a more comprehensive division of the university which will be devoted to the larger problem of sucial control by legal institutions and devices. in and that in the meantime the actual of law and the institute should be rather closely affiliated either by giving one or more members of the faculty of each institution seals on the faculty of the other, or by other appropriate spenish.

If We do not make show specific characteristics on the consection because it is jumplific to make the matterist's notions character by a number of different arrangements; and the pursue we show of the transposition analysed for this perform will account by the temperature of the consecutive by the embed matter of negotiations between the foundary of the non-accounting the the embed matter of negotiations between the foundary of the non-accounting to the consecutive of the consecutive of the negotiation of transfers and a cherestor answerable only to the flow to the alternature, only to the president of the unswerably which the thoughout the negotiation of transfers and a cherestor answerable only to the flow flow the consecutive, only to the president of the unswerably who usually be composed to the unswerably board to transfer and a cherestor answerable only to this board only at the alternature, only to the president of the unswerably when the three temperatures are not transfers and a cherestor answerable only to the unswerable of transfers and a cherestor answerable only to the the three transfers of the unswerably of the new transfers are the new transfers and the new transfers and the new transfers are not transfers and the new transfers are necessarily as the necessarily as t

- Complete executive power should be vorted ill a director or other administrative head of the institute, who shall be responsible only to the provident of the university.
 - a. In the legituing, at least, appaintments to the scientific staff of the institute should be made only upon the director's recommendations.¹⁹
 - (1) The director shall in all cases consult the members of the scientific staff with respect to proposed appointments thereto, but shall follow their advice and preferences only in so far an itsey commend themselves to his good judgment. It will ordinarily be a scatter of good judgment for his not to recommend appointments which are distracted to any considerable number of the staff.
 - b. The director shall have complete control over the actential program of the institute, but not over the methods by which research peajects are executed. This control shall be mested by giving him the power to veto any research peaject which in his judgment does not full within the accept of the institute's scription on herein defined or which differs in character from that herein recommended.
 - (2) This is necessary to insure that the institute's artistics will stall times be directed toward the attniument of the ends for which it is ortallished.
 - (2) The heard of treaters by which the institute is governed shall have no voice in the determination of the meteridic program of the institute, except that no alterations whall be made in the

¹⁰For reacuts of admiresolations paths; at may be measurery that his recommendations recover the advanted of the president of the measurery test, so, the other largel, at should be expansible for approximate in the aminimits account skill to be made over the objection or without the approximate of the detector.

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ecope of its activities, either by adding new activities thereto or by eliminating old activities therefrom, without the approval of the board.

- c. The director of the institute should ideally be a man wha, in addition to executive skill and sound practical judgment, passesses these qualifications;
 - He should, of course, be thoroughly sympathetic with the research program herein recommended.
 - (3) He should be sufficiently familiar with the critical literature of the empirical sciences and should have such a clear moderatanding of their methodology as to be able to distinguish between the kinds of research in criminology and in criminal justice which we have criticized and the kinds which we recommend.
 - (3) It is desirable, although not indispensable, that III have some knowledge of law and of its administration and techniques.
- The institution should consist of two divisions, a division of criminology and a division of criminal justice, but the director should be at the head of both.
- Ideally, the members of the staff of the criminological division should consist of paychologists and sociologists who among themselves combine the knowledge, experience and techniques possessed by:
 - a. A logician whose major interests are (1) formal analysis and the countraction of theories and (2) the methodology of actentific research, especially induction and the theory of probability, and who is acquainted with the history of logic and of the sciences.
 - b. A mathematicine whose major interest is applied mathematics and who is competent to develop fornulse for landling empirical data.

- A statistician who has worked with psychological or sociological data and who to not only a good critic of statistical section but compotent to devise new statistical techniques.
- d. A theoretical physician who is acquainted with the development of the basic concepts of the empirical science of physics and who understands what is involved in the countries and use of theory in an empirical neigner.
- a. An experimental physicist²⁰ who is acquainted with the problems of experimental research and especially with the tachniques of escenerament, and who is competent to lavent new observational techniques and to coordinate observation with theory.
- 7. But there is no group of psychologists and sociologists which possesses such knowledge, experience and techniques. Hence, is order to forme a shaft for the instituting criminological division which will be competent to conduct the research which is essential to the construction of a science of criminology, it will be necessary to create such a group. The most expeditions and the entert way of doing so, is so take achology from the fields which we have assumented and pair them to week on psychological and social dom.
- We therefore recommend that the staff of the criminological division consist of a logician, a mathematician, a statistician, a theoretical and an experimental physicist of the kinds which we have described and in addition. of:
 - a. Il multismatical consumist and a scholar from the field of psychamotrics.

WWe are here using physics as an example of a developed empirical scenars. A thousands from any of the developed empirical science, such as graviton or describer, would serve the summer.

See the preceding feature.

- (1) The former would, of course, he a social scientist and the latter, a psychologist. We include them because, as we have seen, mathematical economics in the sole example of a social science, and psychometries, the sole example of a psychology, which have begun to develop as empirical aciences.
- b. A criminologist who has a wide acquaintence with the Bierature of criminology, perfecuity one who has not himself engaged in criminological research.

Discussion:

These recommendations require explanation.

In the first piles, we must not be understood as recommending that the staff of the criminological division contain eight men, but only that the members of the staff, whatever their number, possess the knowledge and skills that would be possessed by the max whom we have discribed. There are seen in whose education and experience fishes of knowledge are considered and coordinated. Thus, a mathematical economics whally combines knowledge of statistics and applied nathematics with knowledge of the subject matters of economics and other annual sciences. Similarly, the same individual may combine knowledge of logic and of the history and methodology of the sciences with philosophical training in the fields of ethics and politics which, as we shall see, will have to be represented in the staff of the division of criminal justics.

In the second place, we should be here than cendid if we did not admit quite fraulty that we have been driven by a dilezma into making a very radical recommendation which we nevertheless believe to be theroughly sound. It is of tensendous social importance that a science of criminology be constructed. It must in constructed either by psychologists and sociologists or by others. But the psychologists and meialogists, because of their nisconception or inadequate conception of the malure of an empirical science and of the methodology of the empirical edipoces, have shown themselves utterly incompetent to construct a science of eximinalogy. Therefore, we must either abundon all efforts to construct such a science or we must turn to other men who are competent to construct it, if it can be constructed. We therefore naturally turn to men who know the acture of an expirical science and the history of the empirical science and who undarviand the methods by which they have been developed, and to may who are trained in the methods of the empirical sciences and are skilled in their was. It may be that these men cannot construct a science of criminology, but it il our firm conviction, first, that they can determine whether or not it can be constructed, and, second, that if it can be constructed, it can be done only by usen with hinds knowledge and superione.

In the third proce, while we know that there are man who proseous the knowledge and while which we have described, we do not know whether or not they would ill willing to abundon their present inside in pusher to join the staff of an institute. We believe, however, that a sufficient nemelow of them would find an intellectual adventure of the kind which we propose attentive enough to enable the institute to farm the staff of its criminological distinct.

In the fourth place, it should be made perfectly close that in building my the staffs of both the criminological and criminal juslice dividious, we contemplate that no compromises will be made. The director should first be chosen, and these staffs should then be amounted not herrically belt with the atmost care and custom to the said that they should consist at a group of a declars in the very highest attainments, although not necessarily of the most eminent reputations.

- Identity, the staff of the division of criminal justice of the inatitate about the common of:
 - A legal philosopher or a juriet whose major interest is in the field of jurispredence.
 - h. A student of the history of law and of legal institutions.

- A similar of comparative law.
- d. A student of the criminal law and of the administrative code in Mr various aspects, where major interest is in the rational analysis of these bedies of law rather than in the study of the administration of the criminal law.
- e. Students of the administration of the criminal law who have specialized, one in the field of police, another ill the field of properties.

Discussion?

Again, it should be pointed out that the staff of the institute's division of criminal factice med not contain seven man at its inception, although eventually a staff of that aise, if not a larger ons, will be required. The ressons why we believe that the staff of this division of the institute should contain the knowladea and skills which we have just described, should be clear to a reader who has attentively followed the discussion in Chapturn IX to XI, inclusive. The students of administration who are chosen as members of the staff should be men in whom the practical as well as the sheoretical intellect is highly devaloped, and they should have had the breadest possible experience and the widest possible contacts in the field of criminal justics. We have drawn a line between the two divisions of the institute but it is not a hard and fast one. We do not envisage these two divisions as independent and unrelated units, as the whole tenor of this discussion must have made clear. For example, the staff of the criminological division would be expected to give consideration to, and to assist in the solution of, the methodological probbens that arise in researches in criminal justice.

- The staff of the institute should contain an adequate number of research assistants.
 - T is very difficult, if not impossible, to estimate the number of remarch assistants which would be peeded;

hat we estimate that not now than on will be needed at any time to meet all requirements of both the crimindagy and the criminal justice divisions if the following recommendation regarding apprentices in research is adouted.

b. A small number of carefully selected apprentices in ve-search should be admitted to the institute to maint in the accention of necessic projects. Perference should be given to students who desire to devote their lives to work in the subject matters of sevelology or social science, or in law or its administration. The number of apprentices so to be admitted and the conditions of their administen are matters to be determined by the director and staff of the institute.²⁰

Section 4. Negative Recommendations.

- I. The institute about engage in so activitian whatpure other than the execution of the research program hardn recommended, to the end that the energies and afforts of its staff will not be diverted from that enterprise or its procecution retarded.²²
 - A. This is not to deap the need for or the practical importance of the other activities in which an institute might engage and which we are about 50 consider, but only to affirm the greater need for and the greater practical importance of the research activities haven the importance of the research activities are not activities.
 - In any event, the implicate could not engage in such activities and at the same time execute the restarch

Win this way a body of psychologous and social screedists will be developed who will be competent to do the head of semined as which the newton will be around. The induces of the autitoris should four spaced reporty beyond its two walls.

Where are certain anadoms activities which we marriary to the activities of research and nativities up in which an analome supriation implie therefore coping without long is another; checker. There is no another in the initiation of a library, the policiarion of a parant, and gradue enhances are distinguished from instruction (person to minimals within the institution).

program berein recommended without a much larger staff and much more extensive facilities than those which we have proposed.

- The institute should engage in so other research than that herein recommended.
 - A. The institute should not sugage in research in police acceptificate.³⁰

With a poles Solé possente two source or loss destinal exts of archivers, three of organization, Alexentroleonia mile cueronia and theme of the medicine and deformiques of responsant, detection, internitionals may previouslim. For the former class before, such problems as the cerebilitations of public finesce and pay these, the first not between ophics and the police, the acque of the police, loss and pay these, the first not between opticities and the police, the acque of the police (oncience, the archivers and description of pursones). For all policinis parts the case of the moderated position if forth produces as Barri some, considerable createds has been done non-prediction of solice organization.

sisting charty of description and classification

Much jeen required has been done more problems of pointer entitled. These liquidities problems better of extensive and of transmit. The followings of American policies is remaind investigation, and excessively crush, consuming limiting, and is another problems as the end-mone of Private startings. But it is applicable of the problems of pro

reproduces the legits of a crimic, and the classification of the criminal interface alperated. Polius arisingless applies 6.9 continensing ex-cavits in order field; to trialle current be resulted, knowledge and lendingtics of all otherwise, and (b) a trained prince prevented by the continent of the continent and trained produces and the continent produces are trained by the continent and trained produces are trained and trained and software continent and trained and software produces, and interfacialists distribute. Resulting physical, phytographics, mechanical and software produces and interfacialists distribute. Accordingly, physics, miscraecopy, photographic, decipies, only, etc. While the principle of policies are produced as a relatively alight degree and flower appears to the variety. It has been accorded upon to a relatively alight degree and flower appears to the correct appearance of which is such that the correlated of ordice training choices are discussed with the such continent of ordice training choices are discussed to the correlated of ordice training choices are discussed to the correlated of ordice training choices are discussed to the correlated of ordice training choices are discussed to the correlated of ordice training choices are discussed to the correlated of ordice training choices are discussed to the correlated or of ordice training choices are discussed to the correlated or of ordice training choices are discussed to the correlated or of ordice training choices are discussed to the correlated or of ordice training choices are discussed to the correlated or of ordice training choices are discussed to the ordinate of the correlated or of ordice training choices are desired as desired to the ordinate of the ordinate of the ordinate ordinate ordinates are desired to the ordinate ordinates are desired to the ordinate ordinates are desired to the ordinates of the ordinates or ordinates are desired to the ordinates or ordinates are desired to the ordinates or ordinates are desired to the ord

Foliae Activities, as it exists as Ensuge, is some distinct a contribution of the Cont

B. The institute should not engage in research to legal medicine.³³

training, but also an adjuncts to judice, prospections and counts by whom they are obtained for expert advoce and services as specific cases. So, with the institution of settlement of the country of the country of the formation of the country of

Fifth term: Tight implicate in nomemous used to refer to those prompting of law and custom which popy to the matheal man,—butch fields for refer and deligations in the professional relationships with the community and big deligner procedurings. It is professional relationships with the community and big deligner procedurings in long in the matheautic professional procedurings or internal supports in this ancient in long internal procedurings and the matheautic professional procedurings and the matheautic professional procedurings and the procedure of the proceduring and the procedure of the pro

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Note only as the mesleys-input motivate an computation injector, at the informativities of the command, have been described as solutions and lengt status as such. These some creation is allowed accountry boths is probably due and lengt status as such. These some creation is also conservy boths in probably due and lengt part to the pertitiones on the continues as the official accountry to the probably due to treating amount of the pertitions on the continues and continue accountry at the continues of the continues which are activities beared to (a by the presentance of the converse system, at no doubtful it is rectically accountry as majoritate of the activities accountry as the continues and the continues are the administrations of the continues and the administrations of the continues are the administrations of the continues and the administrations of the continues are the administrations are the continues are the administrations are the continues are the administrations are the continues a

- Police evicetifique and legal medicine are the principal ficilis of resourch which are not covered by the resourch program herein recommended. Research in both fields is needed and existing facilition therefore are inadequate.
- We do not my that remarch in these fields should not be done, but only that it should not be done in the tradition which we prosper.
 - It ill of relatively less importance than the research which we have recommended.
 - b. For the institute to conduct research in police seigntificate and legal medicine, it would be

Furthermore, it would find at difficult if our supersists to citem the uninverse and other cuttivate upon which are constitute and obscarced according necessarily depend, although it might do so if consected with a subject fundant.

And yet it defined to see here forware moderne will be developed in this country.

And yet of it defined to the three features assessment will be developed in this country writtens anticomagnical interview or The better, an enterture have become regardinal countries of research and creative that the development of features that of creative the research of the development of features to be present assessment in all the countries of the present of the present of the present of the present of the countries of the present of the countries of the

Whale it is probably describle that some uncornerous in legal medicions should be given to individualist societars relocate as a major of the hookald cartriculum, inturing for the probable cartriculum, inturing for the probable of legal success about the control of the control cartriculum intuition in the control of the

specificia.

There are at least few cubes in this country, Here York and Beston, in which, because of the substitution of the description of the description of the substitution of provide for research and materiation in legst substitution in New York the medical extension in fact, the substitution of the definition of substitution of the definition of substitution of the definition of substitution and substitution of the definition of substitution the substitution of substituti

mecessity to establish widden the tastitute a evandualistic institute and a medico-logal institute with their own staffs and with elaborate and costly physical equipment. This would greatly increme the cost of establishing and Rabintaining the institute.

- e. Research in police scientifices and legal mediclass would be directed atmost entirely toward problems which are different from and unrelated to the problems toward which the research which we have recommended would be directed.²⁰
- Besearch in legal medicine should be conducted either in a medical school or a medicolegal institute affiliated with a medical school.
- IXI. Except for the incidental training of research assistants and appearation in research herein recommended, the institute should cognee in no instruction or training whattive."

Witne paly agent as which they would seach in its the fields of police and of proteoment. The standard of both fields to assume that the mechanic supplement of proteometers. The standard of both fields to assume that it is mechanic supplement of the mechanic supplement of the methods and practices output on the standard their proteometers in the standard that proteometer of the nethods and practices output one and assume that proteometers are the proteometers of the nethods and practices are the nethods and the nethods are the ne

^{*}The opping among pyrious when we complete two shreets manages to the clerk that the sainfries should be empty on the consecuent terms and of warms absorbed and approxime as research. Beyond the, there was a plany difference of opinion-what control storied the sainful the sainful the sainful the sainful that the conductable of discissions to research activities of an admittable would have conductable of disciss upon the research activities are to opinion when administ unamounts that research activities are of grawler unprotunen than training activities in the fields of crumbinology and of crumbinal justice, and that if one of the two pets of discivities had to be consistent, at least the lock training adstriction.

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Perhaps the consenum of survivan was slowly the maintent about despage in no teaching whatever, occupit the monimoid beginning of requested abstracts and appreciation for the consenue and destart from the consenue and destart from tower export most recurrent accuration; that general, instructions make and destart first rover export most recurrent accuration; that general, instructions and appear in the receivable with of the institution would fined be forward to instructions and the professe it depends and the professe it depends and the professe is not at the present those quantity to be taud.

- A. It should not give furtraction in eximinatery, although the descriptive knowledge which exists in criminology is not now being generally applied in practice."
 - 1. Buch knowledge has so little theoretical significance and such slight practical utility that it is not worth teachime.
 - 2. In any event, imparting this knowledge is of nacitable importance in comparison with the importance of the research which we have recom-Debesor.
 - 3. In any event, this knowledge is now being taught by a number of existing institutions for cultural purposes and by an increasing number of institutions for practical or professional nurposes."

The contrary opinion was based upon such grounds on that there now exists a body of importally which that he thinged uponably so the field of the pulses; that result; it without trusting tends to become operants and search, and that training is so judis-parable method of group the sources contacts with officials which it will need in

paintable method of general the observed controls with administration are well associated and appears in terministration. However, even the observed method associated in the process of the control of the artificial of the legisle official and affected out official, secured on the artificial of the legisle official and affected out official, secured official, secured of the artificial of the legisle official and affected outside of the observed of the artificial of the legisle official and affected artificity, such as the Period Fundament of the Commission of the C THISTY of Various, the explane or baselving up over an repetite in Induced, on the whole those nativestical activities considerate the support such of their programs. Moserve, those pustivels are not on the whole consummable to that which we propose them are organised primarily around the work of the points of, at least, the processes of detection, reportifications and appreciousness, and they use a part of the administrative Machinery, as well so acedemy publishess

machinery, as well accounts reconsciously.

Dr. Karchwery has said that compained for reconside so retrained by: "The problems of a frestreament of the extramal haw and an association and of police sufficiency (solect payaringfue, forecasts, madelexing, etc.) recent to the ensummental, out to any strictwart, calculated to defined the interest of the ambitude and to the public from the more visit problems was an animal as a solect."

with problem we are enabling to solve? "This involved problem we are solved to the first of chromod patter are not now horney question in mentions for three reasons, among others: (1) it must be topical cluerly by elicitals, and to a completable forget officials are ignorant of hi; (2) some officials with guarant his on these the capacity to this right of the considerable flower by since in consequently to paper his first to a considerable degree the freedom of decrease and solves wormstry to fix application because of retermate in the administratory colds.

"See Appendix V of the solving separate in the Binnest of Scotal Hygiene choised of Farther's Chromology and of Crammod Jantice This opposite workers a narry typic of the cold of the desired of the solving the cold of the solving the billion of the solving of the ball of the solving the solving of the ball of the solving the solving the solving of the ball of the solving the solving the solving of the ball of the solving the solving

- 4. In any ovent, without increming its staff, the institute would be unable to give instruction in criminology since, if our recommendations are followed, the staff will contain only one criminologist.
- B. It should not give instruction in knowledge of the administration of the cristical law or in knowledge which it useful in its administration, such as the botten of knowledge known as police scientifique and legal medicine, although such knowledge III not now being sourcefully applied in practice.
 - Such knowledge, unlike the descriptive knowledge which exists in criminology, is of practical utility and should be impurted to the officials of criminal fustice.
 - Existing fartities for imparting this knowledge to the officials of criminal justice and for instructing them is its application are inadequate and should be supplemented.
 - But important as this work is, it is of minor importance in comparison with that of the research program herein recommended.
 - we do not may that institutions should not be established to give such instruction, but only that is should not be given in the institute which we propose.
 - 4. In any event, existing methods of coloring officials are such that individuals who may have been trained in perform the duties of officials, do not become officials, except by chance.
 - a. There is little hasis III experience for the belief that any comiderable number of persons who are not officials but who would like to become

officials, would carried for much instruction wave.

- By and large, if we wish our officials to be trained for their duties, we shall have to train them often they became officials.
 - a. There is Bitle quidence that officials during or will volunturily seek unch instruction. Compulsery education of officials is indicated.
 - b. The training of such efficies as policimen, probetics and parole officers and the paraonal of punal and correctional institutions, is a function of government. Only government can exercise the necessary computation.
- There are additional reasons why the institute should not give instruction in police accorditions and local medicine.
 - a. These rescence are in part the same as those why the institute should not engage in research in those delds, namely, the large increase in rinf and facilities that such instruction would antail, and the relative unimportance of the work.
 - Instruction in palies coientifique is a function of and can be given mecessfully only by a crimfacilistic mathrita.
 - c. Instruction in legal modicine in a function of and can be successfully given only by a motival school or a modico-legal institute closely affilated with a modical school.
 - d. The prevalence of the commer and the rarity of the medical expansion and the methods by which commers and their physicians are chosen,

are additional reasons why the institute should not give instruction in legal medicine.

- C. It should not give instruction in the criminal law, either substantive or procedural, or in the history of the criminal law, or in compensative criminal law.
 - Sheek knowledge is of practical utility and should be imparted to legislature, judges, presecutors and attorneys practicing in the criminal courts.
 - The teaching of such knowledge is the function of the law schools.
 - The law schools are distinguing that function vary inadequately.⁵³
 - d. Hevertheless, we do not recommend that this work he done in the insultate, since it is a function of the law schools and since the giving of such instruction in the institute is objectionable for much the same reasons as these set forth above in other connections.
 - 5. However, it is to be expected that the institute's research is this field will directly influence the teaching of these subjects in the law schools and will thus indirectly indicance legal education.
- D. The institute should not concern itself with immediate practical problems of crime either by attempting their solution or by assisting efficient in their solution.³⁰
 - Again, we do not deay the importance of the work.
 We consider it relatively unimportant, and we be-

⁴⁴Ses footsate SS, styles.

**Among the ways to which it has been suggested that an best trive sulgist cooperate, with and assert officials or the authors of inventions practical privates are: the making personal suverys and welvering and assessing large-laters and prices advantation such consists and extend and prices are unfined of tracting officials; in the sufficial of tracting officials; in the surface of tracting and in adulting qualities combined investigations; by staying for such and tracting and in adulting qualities combined investigations; by staying for such distance, one over or making; by staying for such

Here it to be unwise for an institute with the remarch program which we have recommended to analysistic such work.

- In any event, the practical problems of treatment and prevention are at present incapable of solution, and the institute could render very little assistance to officials who by trial and error are attracting with them needlesss.
- In any event, the institute could not render musttance to legislative efficials and to priloc, procerators and other stitcials engaged in the adminisingation of the criminal law, without grantly enlargher is neaf any sharded Regilities.
 - a. To annot is the execution of the processon of shypercon, identification, apprehension and procession, it would have to establish criminshistic and medaco-legal divisions.
 - b. While the staff of the division of criminal justice of the isotitute which we have proposed could resider assistance in the solution. If the practical problems involved in improving the processes and institutions of criminal justice, their complies should not be dissipated in that manner.
 - (1) Officials now have enough knowledge greatly to improve the administration of the eximinal law. Their failure to bring about referrus is due not so much to ignorunce, as to a lack of the will and the capacity to use the knowledge which they possess.
- E. The institute should not publish a journal.
 - It is not to be expected that the efforts of the criminological division of the institute to construct a

science of criminology will have immediate results. Some time will probably chaps before it has any thing to publish in that connection, and its publications will probably appear at infrequent intervals.

- While the work of the divinion of eriminal justice can be expected to yield results more quickly, there exist a sufficient number of journals in which to publish the results of its resourch.
- 3. In any event, the institute should adopt the polley of publishing the ruralis of its researches in wall rounded and thorough monographs instead of in despitory and fugitive articles of which there are now far tee many. If we were paralited a word of admonstrees to the staff of the institute, it would be that they should not rusk into print. The printing press has not proved to be an unmixed blanking; it has been an impediment as well as an aid to the advancement of insoviedge.
- IV. It should be apparent that throughout these negative recommendations we have been guided by judgments of relative practical importance. We recognize the argency and crurial character of many of the practical problems of crime. We appreciate the sectives which lead men to strive directly for their solution. But we insist that the sealous and over-maxicous domand for immediate results ought to be restrained as short-sighted. The quest for valid and significant knowledge in uttimately the most practical procedure. Pradamos and foresight compel what may seem to some to be a long and devious road to practical accomplishment, but the way of clear and usaful knowledge is the shortest road because it is, in the long run, the only one.
- V. It should be borne in mind that the plan which we submit is a plan for the immediate future of the institute and

not a plan in perpetuity. At any time that R is deemed wise to said to the institute's activities any ill the activities against solicit on now every correctly advise, it will be possible to do no by enlarging its staff and facilities.

Section 4. The Larger Significance of the Proposed Environe.

The establishment of an institute to undertake the research program herein recommended would be a manifold benefaction. It offers an opportunity to accomplish much more than the acquisition of knowledge which will direct practical afforts to solve the problems of crime. The latter alone would, of course, justify the ostablishment of such an institute. The problems of crime are of such momentons secial importance that the support of research which aims ultimately at their colution is of unquestionable morit.14 But on institute such as we propose has other potentialities which enlarge its opportunities for usefulness and which enhance the value of its creation. In the first place, it could do much toward directing and encouraging scientific work in perchology and in the social eciences, and thereby stimulate the construction of empirical actions of these saveral subject matters. In the second place, it could set an arample in the analysis of legal materials, in the development of rational sciences of budies of law, and in the introduction of significant empirical knowledge into the study and neartice of law. These two points require brief elaboration.

The present situation in the fields of psychology and social sticute offers a great opportunity. These fields have now been under cultivation as fields of empirical resourch for a little less than a handred years. Undertunately, they were misquided in thair inception by the leadership of such men as Augusto Comte, John Stuart Mill and Herbert Speners. They were influenced throughout the minetesself contary by the deminent absorbernalis-

P⁴We feel that it has already from made sufficiently clear also! the institute we have proposed would be the materialing most hindy to result editoriely in practically metal incovidage. Furthermore, we believe that it has been simply shown that no other type of resuscits could be smalledy recommended.

tic interpretation of the physical sciences. The raw empiricism which attended their arigin and the course of their development in the nineteenth contury was further accontacted in this country and in this century by the docume of pragmatism. Under this influence and against the background of defective higher education in our universities, men have become investigators and teachers in these fields without adequate knowledge of the history and methodology of the sciences, without knowledge of such useful rational instruments as logic and mathematics, without training in the use of methematical and statistical techniques. and without brood philosophical orientation. A generation of students can rarely vice above the level of its teachers; and since the students of one generation become the the teachers of the next, we can understand why the unfortunate radiusness which attended the prising of psychology and social science in the nineteenth century have persisted to this day." Psychology and social science as research enterprises have received grant ampetus in America and in this century from two sources. The first can m called the 'Ph.D. industry,' which has made it either academically necessary or academically profitable for young men to do either trivial or ill-considered pieces of work in the tradition of their teachers. I The second source is the tramendous sum of money which has been available to endow and subsiduse rescurch in perchalogy and the sorial priences. Millions of dollars have stimulated research which would not and could not otherwise have been done. If the attainment of valid and disnificant empirical knowledge was the injention and home of the sponsors of this Pistarch, it must be said that their money has been largely wanted.

In view of this situation the opportunity which is here presented is indeed a striking one. If an institute were established

[&]quot;Mathematical continues and applicametrus constitute exceptions which we have already discussed in Chapter FV. In on the middle lace that a conception they prove a value of the continues of the continues of the value of the control of the control of the value of the control o

NoTechnical programs have an unity statement been counted to under the publication of discretations possible; as many cases discretating stratified a large part of the periodical Discretam.

to lay the foundations far, and to hegin the construction of, an empirical science of criminology, it would necessarily have to correct the defective methodology, the new empirician now prevalent in the fields of psychology and social actence. Moreover, as we have pointed out, the construction of an empirical science of criminology would require the development of empirical sciences of psychology and socialogy. Therefore, the institute proposed has the opportunity of effecting the falsa start which psychology and the social sciences made in the sixteenth century, of counteracting the tradition which has grown up, the fulfillt of which it enrichment by when it is one yielded, or ather fulfal to yield, so far. While the millions of dollars which have already been expended caused be made to bear fruit, at least further furtilless are not be averted.

We now turn to the second of these opportunities. Since the turn of the onsury the law scheols of this country have been interested in the respectations of law and the social sciences. This interest has unfortunately not been collected by the clear radiation that no empirical sciences exist with which law could be profitably aliked. Teachers of law cannot be blumed for having accepted what is both the prevalent academic and the popular conception of social science. While there is no question that the study and practice of law case employ knewledge to be gained from the fields of paychology and social science, valid and significant knowledge must exist in order to be examined.

The raw empiricism which has prevailed in psychology and social science has its commissurer in the research of legal

If here we must again distinguish between decomptors and scentific incoviledly. It our discussion is Chapter IX of the administration of the crustal law, we possible out that descriptor hardwisely which can be suggestionable interpreted in herms of common sense generalizations is of stake, in the solutions of the gratical problems of the problems of the problems of the control of the scenario which has use by lawyers of such incovingly and solven the problems of the control of the scenario which has been by lawyers of such incovingly, or, if he distinguished between the two half become they decover it us what is supposed to be a scenario possible problems of the scenarios. On the control of the scenarios of

scholars. It goes by the name of local realism or realistic jurisprudence. It has been developed under the influence of psychology and sociology; in fact, the precursor of realistic jurisprudence was called acciplosical harismendance. It has, in addition, been suided in its aims and methods by current American pragmatism. We have previously discussed both the value and the defects of this mayement in legal research." It Woody when this movement becomes extremist and doctrinaire in its exclusive indutence moon the empirical atady of flow in action' that it is a serious syll. It has in some quarters exerted this unfortunate influence: Il has depreciated and discouraged retional legal analysis.10

This situation in legal echolorship also offers an opportunity for the institute we have proposed, since its activities are in part to be directed toward the establishment of valid and significant impowledge about the administration of the crimical law, which is an instance of Caw to action', and the construction of a rational acience of criminal law, which will provide an example for similar work in other branches of substructive and precedural law. Figally, in aiming at rational legislation and the development of a code of criminal law based upon both legal analysis and adequate ampirical knowledge, the institute should be able to show clearly and concretaly what is involved in the respressement of the social sciences and the study and practice of law.

The institute which we have proposed, therefore, not only has an obvious practical justification in the importance of the problame of crime, but it should also mark the beginning of a reaction against our nineteenth century heritage, and be the symbol of the reluntatement of reason both in science and in law.

^{**}Thes will be found in Climpter XI.

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APPENDIX I

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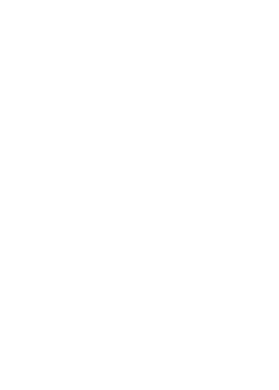












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